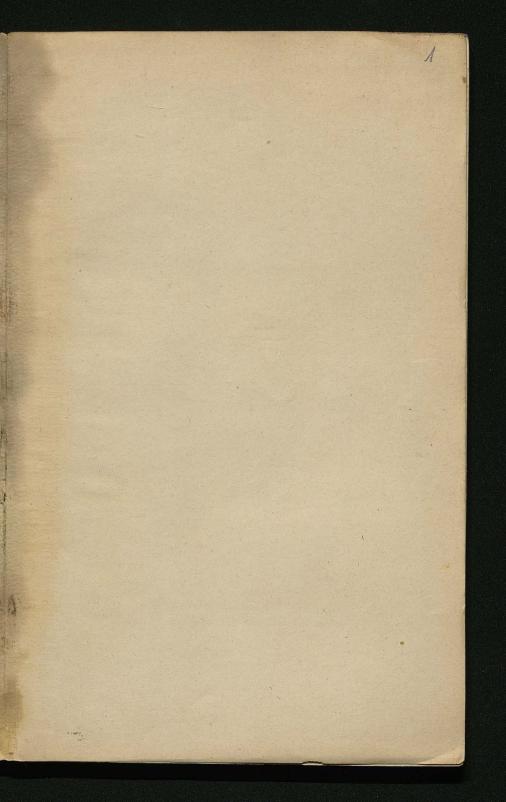
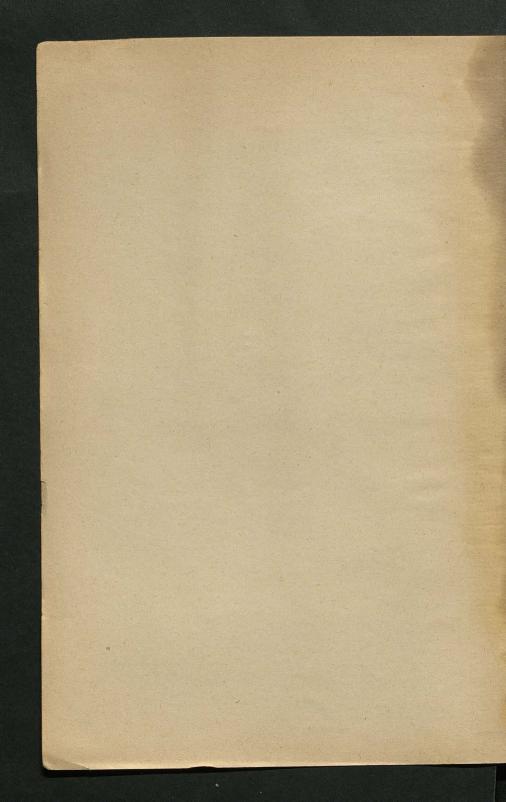
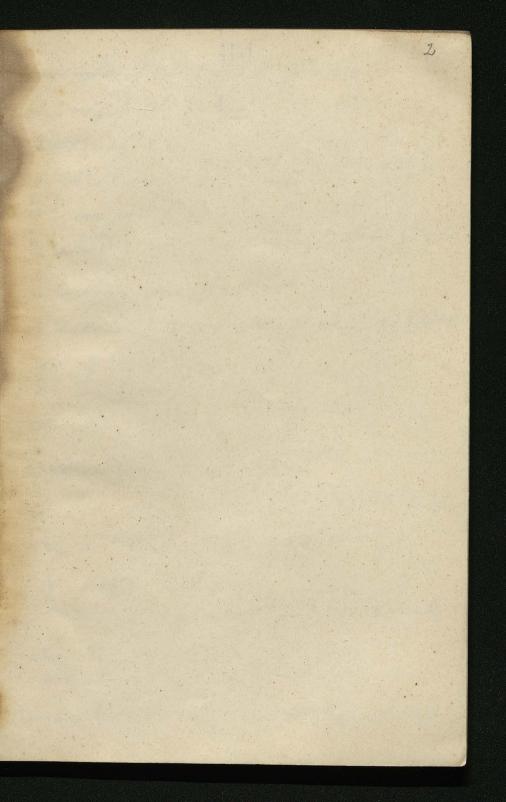


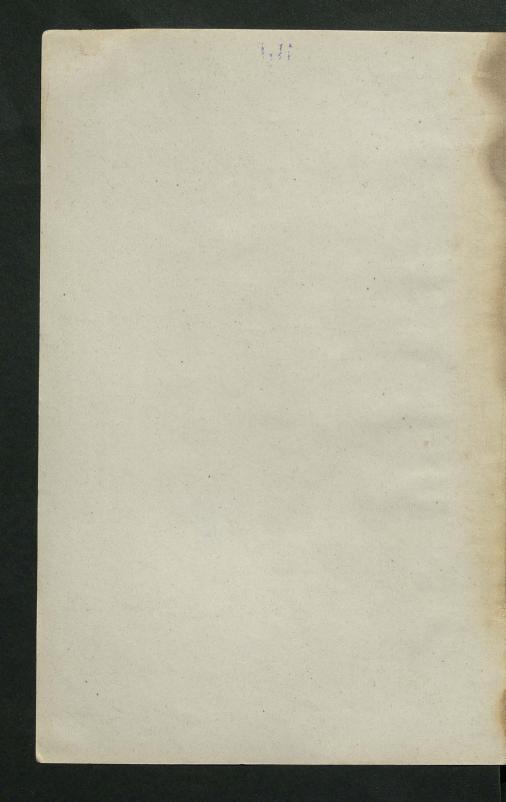
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J. I. UZAITAK Y WIEN IV. Wiedener Hauptstr. 29









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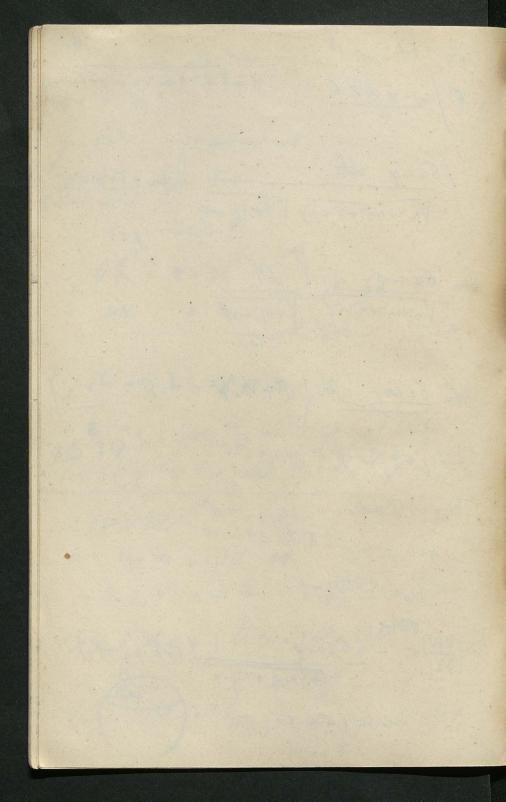
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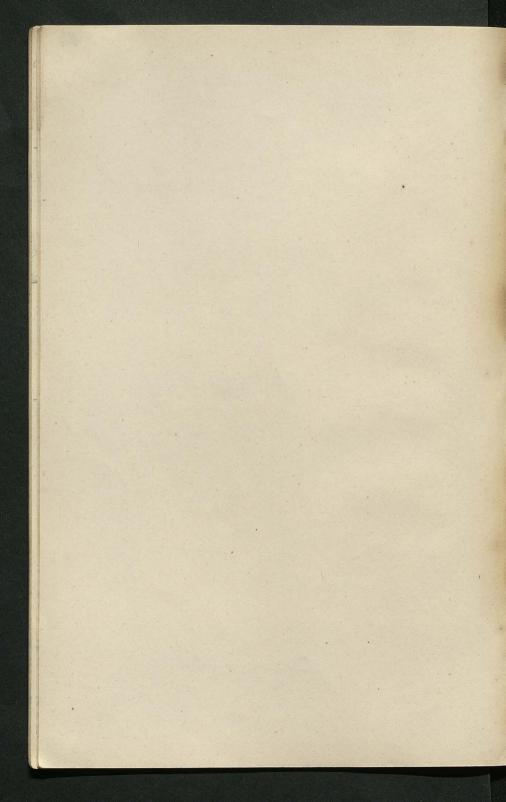
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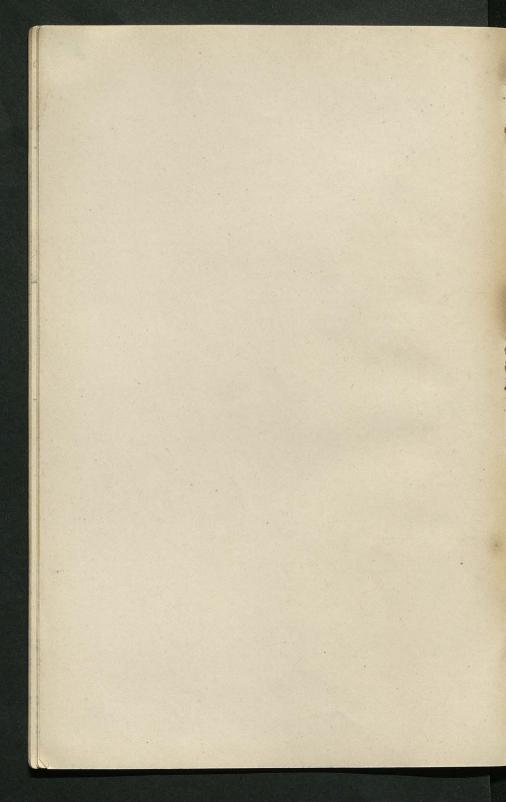
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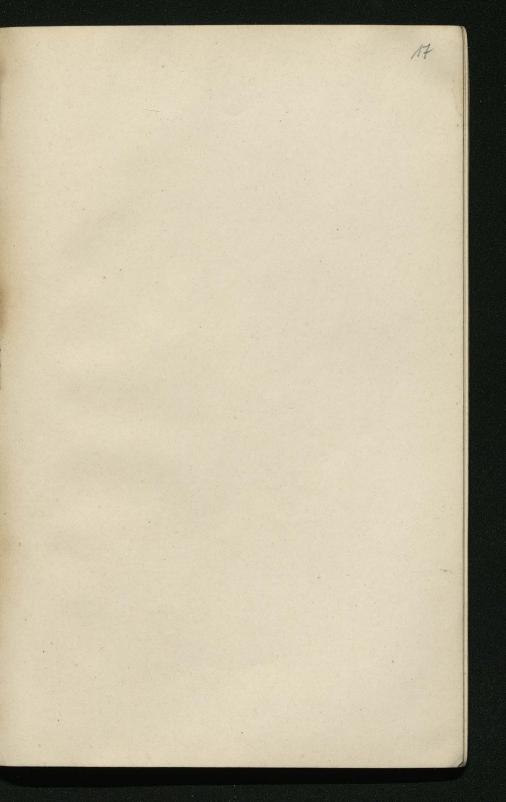
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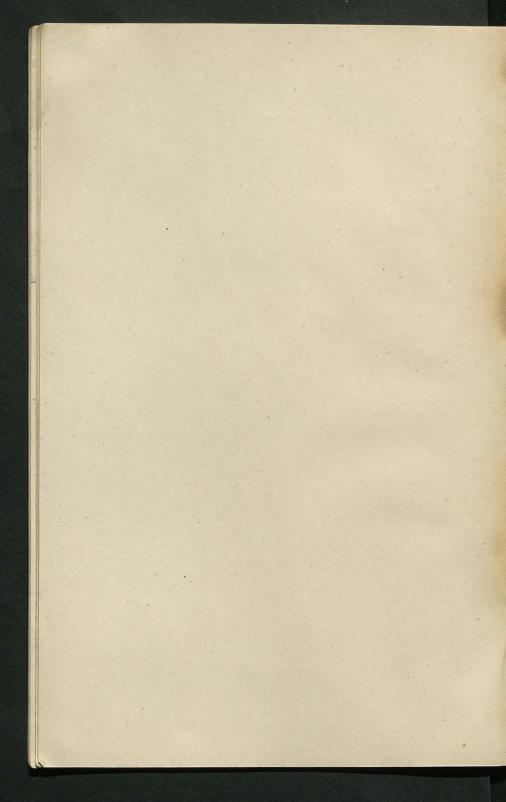
us orang ~ A u = / n + m + a top- lameny W / emy do 6 Sauge do p= - 20m up nothing to my W= 60 mp dt Vith mit W= 62 000 20 11 + k, p2 + k2 p4+ Lecars fylomsnow Wa = I Tradeces c 1=0 = 6 (13 of 6+ m=0 Wo= Infe up (olv)= - noamp (1+k, he +he he't) 78 Sh (~ e 2' - 5 - 2. a

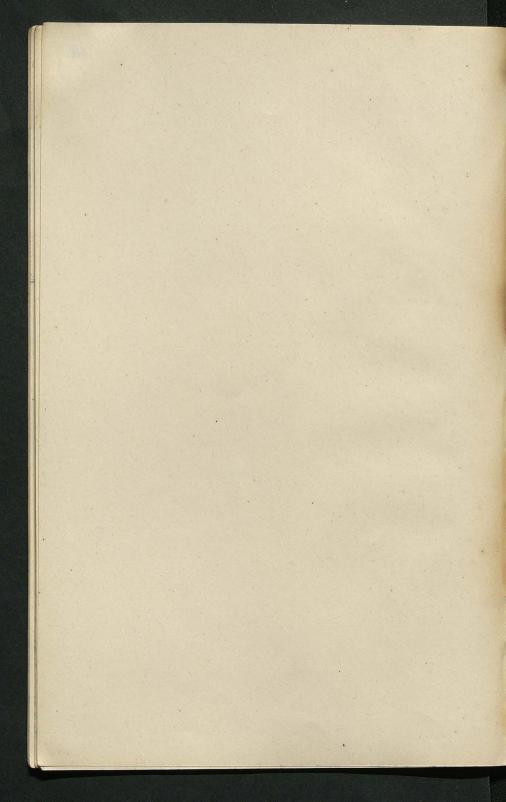


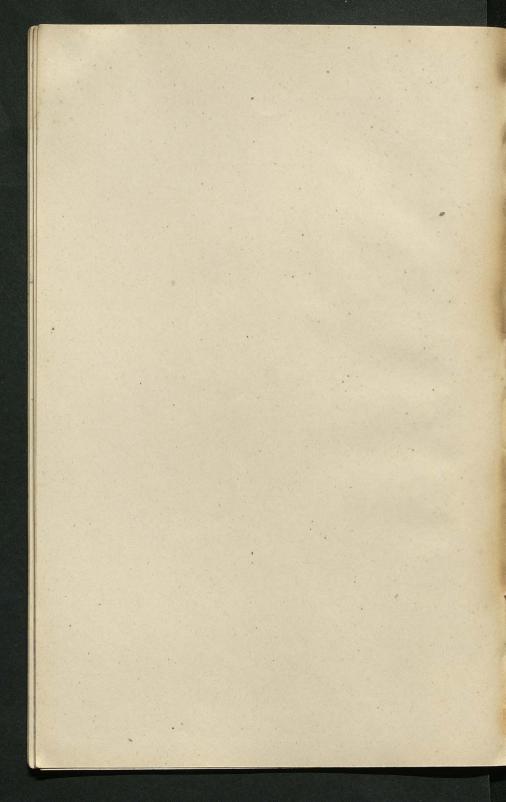


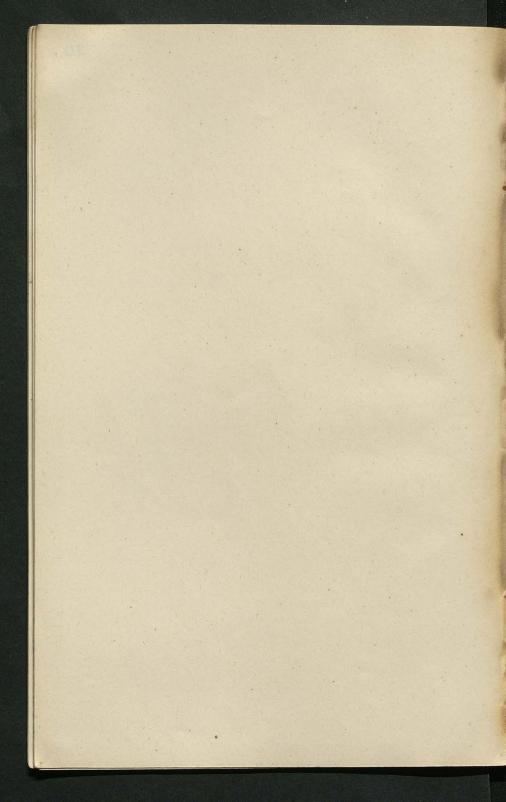


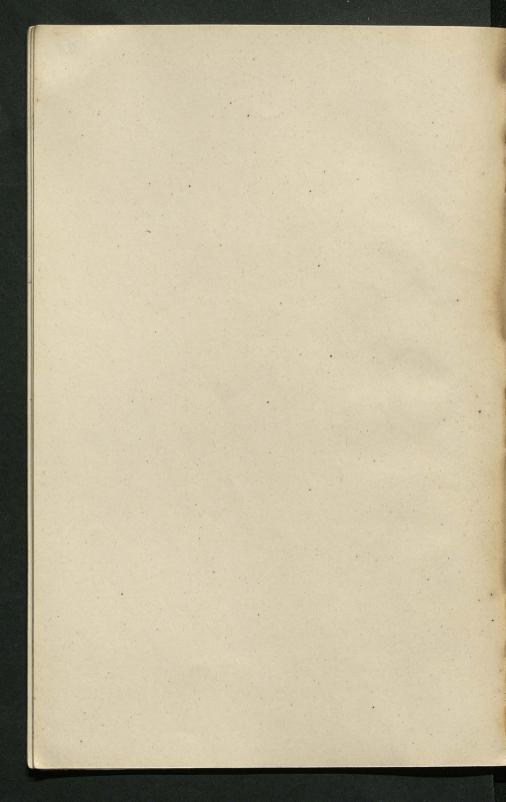


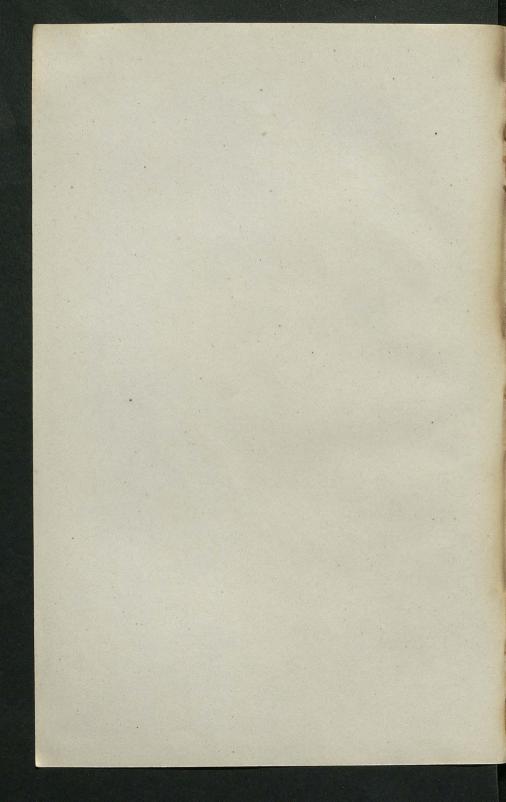


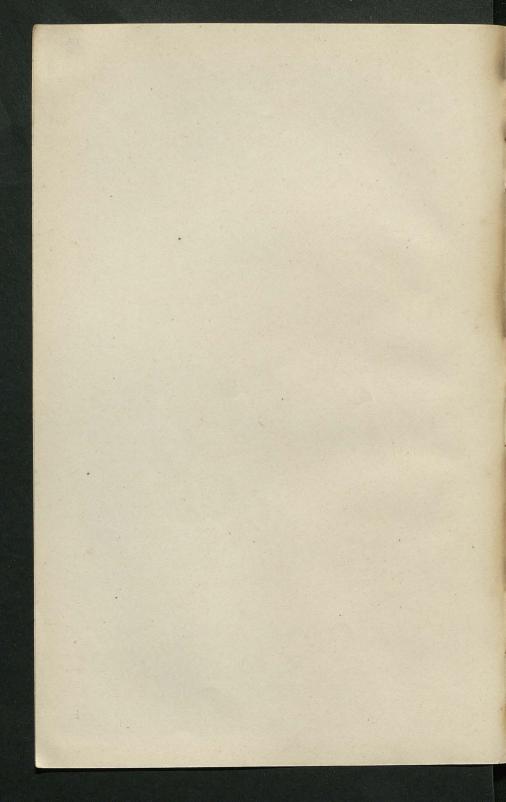


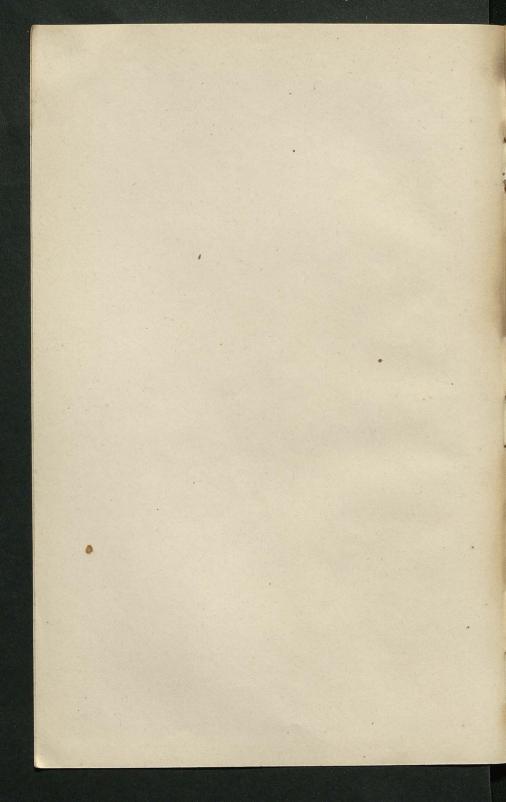


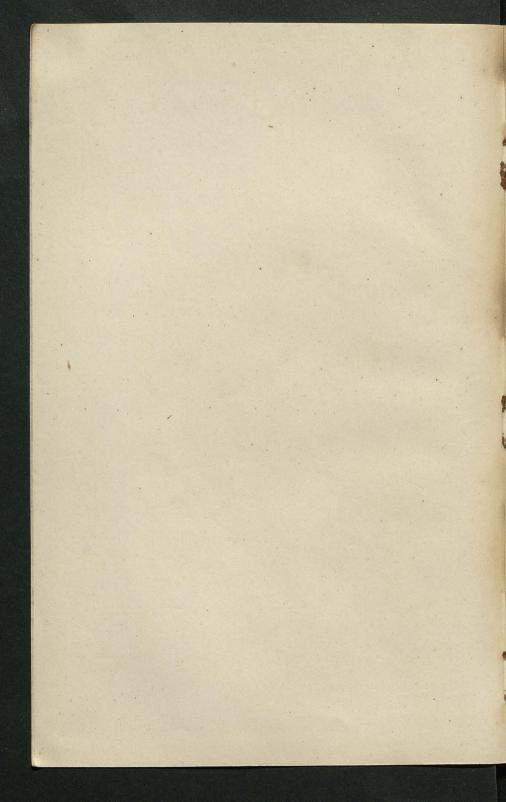












4 (norm) = 8 (n) - Min u (n) Wh: le me as por 1000000 n- w-q(w+u) = q(w-u) q(w+u') = q-1 = 10 (w-w) q(w-w') =- R (q(w-w) = - q(w'-w) 7. p(a+1)= (2-1)=0 coloren. all dryble 1000 Can Can 1-41 06 gara III il ynobra = q(u) = e Aw+On+C.

$$\varphi(\alpha) = \sum_{i=0}^{n} \left[\alpha_{i} \alpha_{i} (x_{i} - \beta_{i}) + \frac{1}{12} \alpha_{i}^{2} (\alpha_{i} - \beta_{i}) \frac{1}{12} \alpha_{i}^{2} \alpha_{i}^{2} (\alpha_{i} - \beta_{i}) \frac{1}{12} \alpha_{i}^{2} \alpha_{i}^{$$

 $M^{\rho} a = \rho^{2\rho n} + \rho^{\rho-1} x$ $p(n) = \sum_{n=0}^{k-1} \left[a_n \sum_{n=0}^{\infty} h^{\rho} \rho^{\rho} \right]^{2\rho} e^{(n\rho+1) \delta n n}$ yan) = 200 to l 20 20 to p 2 k - p kt + ap + 1 sinh eposdee al Norgel y (2, 20+1) = = 2 eprt +pk+-pk+-pk++ + (a Kp + ar) inv + 2n (kpp + M) - p lyn 2pr = - pk++ ent + the - kt + invak - soulf - lynn $\frac{\psi(r, \alpha v + \beta)}{\varphi(r, \alpha v + \beta)} = \frac{1}{2} e^{2k\tau + \alpha} k \rho i \frac{nv}{\omega} \alpha \rho i \frac{nv}{\omega} + i \frac{n\rho}{\omega} \rho \frac{1}{\omega} + i \frac{n\rho}{\omega} \rho \frac{1}{\omega} + 2\rho 2$ $= e^{2k\tau + \alpha} k \rho i \frac{nv}{\omega} \alpha \rho i \frac{nv}{\omega} + i \frac{n\rho}{\omega} \rho \frac{1}{\omega} + 2\rho 2$ $= e^{2k\tau + \alpha} k \rho i \frac{nv}{\omega} \alpha \rho i \frac{nv}{\omega} + i \frac{n\rho}{\omega} \rho \frac{1}{\omega} + 2\rho 2$ Poo (275') 10. 2=1

mere = 20 g (-0 p)

= pe Winn Eame mon 28 E am e 2 - Same zp Zem e (mrk) i oru 2/ Zam. e " w.e " E E En & e minu + 200 = p z Ejramon e. 8,208 ed ex ex =113 pam+ a = em gem fuss 46 Phiffa Tao? m=0 max = 20. Qx= go maketh= ang 2 K more = sug M 2012 20 2 2 K [1+2 +p-1

9ev = - 27R CRY = 12 $a = \frac{\lambda - \gamma' K}{2 \omega I}$ ·= - 7K -XU-K(U'MM- YU) = 4Kin みニードラ C< yenter e que co significa 6 × K & 76 2 - donnes = don e(nown) on e epan y(u) = 2m am lanih 2000 2 2 (uplo) = mome in fmin e it = 2 = An 2 am 2 m/u + 2mh li - Jun grangen = n fam phy-yh mix for

(mond) = 8 (m - 6 man) (-1) he en'a fixely -27/ Ex, + 8 (4+2w) ly n=a = you elante 6cm 271x(now) + 271 2x, + 8(n+2w) - 9cm + (2v'+1) 60--22 m - L = 2 m 1 or & E 8 Murry = 8 mm · 7. 9 mas a dopper 5 co - 20 h ro = cont : San = an + 2 Ant c 10 45 e ~ e, 8, c] Quezus - Say = = + 40 au 1 + 4 w12 + 4 bu/k = (20+1)in - 2 y' K (u+4)+ 2y' En +22u+h it both u the $4\alpha\omega'=-2\eta'\kappa+2\lambda$ $a = -\frac{\eta' \kappa + \lambda}{2\omega'}$ 8 N b - 1 = 40 un + 4 wem + 4 lu = (2p'+1) in - 2yu(u+u) - 2yu

me Me q 18 8 - 2 for [f. c - A for] equition the o - k 06 - 1 d, dr - - dk i par = 6 m-de 6 m-de 18 - de l'es cepp: of Tourse-who are rage = = Allagha a la la gersa 6(n-ax) (-1) k -2 y [k (u+w) # q(u+2w) = 6(n-d) -27 Exx+ +\$(utw) = 9 cm = 6 mx7 -(-) Kelen e un, in 27 k(n+4) - 27 Edn + Sutres - Pas + 2m+1) for = 8" (4+2w) = 84 w q(a+241) = 6 u-

Fortier = the east at Jon + 6 - an - 4 and + 4des - 2 Pen - 4 Per Fon el & Fentage Fay 2 gr: autb-42/2 42 wz 4/2 = 2non e Cuff 400 b-42 w= 4/1 w= 2ntn erepufstodieren: 12 sit; eyeren Y Fartzw = Fan Further) = e ANT Outl Fin, valay "te A=0 Effe- JaPAhrz. (n+2w) = e 29n+4) 6mg n= 6'w

per odral Dzir y (2+2in) = p(2) 4(2+ it) = e 222 si yan frede garns = pe en en geldre, dig 6h 7. W/c perfect 2te V fenous appars 9 (now) = p(n) rente pares) = A e yas quorus = pe yas for jo farmo - for from) = e for further = earth fun, for = e n + E/on of Fin) $\frac{\alpha u + \beta_{f(u)}}{12} = \frac{\alpha(u + 2\omega)^2 + 2\beta(u + 2\omega)}{2\beta(u + 2\omega)} + \frac{2\beta(u + 2\omega)}{2\beta(u$

Voi(2+tin)= Et11) ent + ma + no V,0(2+20)= 2 (2n+1) 2 + 2n+ (2x+0) 25 e (2m+) = + most = + 2most 22 = - T - 2 = [2n+i) m+1] T + 2non 22 (2mm + 4) 2 $= e^{-\frac{T_1-2}{2}} \leq \left[n+1\right]^2 + n + n = 2$ = e + 1 - 2 Joo (2) Jio(2+tin) = € e 2mon /2 + 2mon (22+in) = \(\left(\frac{2n+1}{2} \) \tau + \(\frac{2n+1}{2} \) \(\tau \) = 1 0, (2) V11 (2+25) = i E (-1) e (20) + 2mm 22 + 2mm 5 =ie = = = = (m+1) = + (n+1) = 22 = i = = = 2 001(2) D₁₁ (2+1 1 m) = i ε(-1) 2 (2 + 2 m) in

= MM = -0,00

= e - 200(2+ + pin+ tixt) ril sheel doo ps 9 Charakter tothis 20 0 p 20 P- g 370 - Di T= No dul & Vhi 8 ch 2 (2) a of the in ope of the colony to 9 2 2+ 2+ E = e - T-22 Doo(2) 000(2+£in) = 2 e nt+2n2+nin $\theta_{0}, (2+2t) = \xi(-1)^{n} e^{nt} + 2nz + \frac{\theta_{01}(2)}{2nt}$ 2-1) 20-12 Joily -nt-22

= A e 2+ ini + t 5 (1 - e 2) TT (1-29 m /2+p) = A 3 2. sin(i 2) TT (1- 9 m2/2 + 9 m)

- allgunent (2n+ th) = + (2n+th)(22+ p/1)

Vr9 (2) = 5 e 2 tm) = + (2n+th)(22+ p/1) the was from the obefore 1=2ptp P=2vtfin+gfiz Egfin

22ptp. 2v+g, 20= = 2 (2ntp) = 2ntp (22+p, 1n + 2vin) e the svin / = entrial = entrial = entrial = (-1) 1. 1 2, 9, (2) Voo(2) = # e + 1/2 + t/ppin on t + upt = 1 + 2 n2 + 2 ppin 5 ant +2ml2+ 2 gint 2pt

= e^{2+\frac{1}{2}} \(\frac{1}{2} \) \(\frac{1} e extite e atomas. = 2+1 f \se t (a+t) f(run)r 2 A Dig Li wiile TT (1+2 g 2 m 2+2+ g 42)

0,120 5 0,0 6 2 - 2+in $\vartheta_{1} = \vartheta_{10} \left(2 + \frac{in}{2}\right) = \frac{2}{2} \left(\frac{2nt}{2}\right)^{1/2} + \frac{2not}{2} 2\left(2 + \frac{2}{2}oni\right)$ 2 nt (22+12) A e2+2 in + 4 + 7 [1+ 22+2 e2] + (MM) [12 p2r e-20]

v C) = T (1-92) €(2) = 42) 4(€) = Ao = 60 (-1) 9 2m からかくをうころことのかりできかい 3=-22 vo(2) = ≥ p. 2 22 z Nodul 1 = 2 e mit + ins 20, (2) = \$ (-1) & ens = M & +1 e Doo = A TI (1+ grussers) (1+ grate -22) SHET- THE PROPERTY 11(1+per-ye (15 to 1 + () [= A TT [1 +p (= 1)] A 01 = 1-2(n+1).e. = AT[1-p(2,1+1) m 2,22+p(4,1+1)]

Ja 2 3 Mens + 2nz = A 4 - per m = 22 vo,(2) = ₹ (-1) e 200 + 2n2 = A ~ (per) ~ (2n) N= TT Mr (1+ grute en) # (1+ grun -22) 1+ pn+1 (e+e)+pm+1 2 to 2 & ZX = TT (1+29 mor merz + 9 mm) 1 = TT (1-2pmm an 282 + pmon) 2,0 L/ Day - 2 - 2+ = 5 x e 2+ = haf 6 2 - 2+ in 6 du Josep & Dug(2).

= form 9 2 + bien + bo + bre + - b,2 - - - b,2 no k-n=-b-n=19-n-2 k-n-,=-k-n-29 - Acces 6 -- 6, 9" l, =-l. br=-6,8 b-1 = b-1 P bn= -bn-1 gn-1 Ap 8 n = (1) p 82 8 molo bn= (1) pro lo to til b-n = (1) p n (n-1) \$ \$ 100 $\int_{0}^{+\infty} \int_{0}^{+\infty} \int_{0}^{+\infty} \left(-1\right)^{\infty} \sqrt{\frac{n(n-1)}{2}} \sqrt{\frac{n(n-1)}{2}} \sqrt{\frac{n(n-1)}{2}}$ = N(2) 2 (= 2) $f(2) = f_0 \leq \frac{1}{n} = \frac{n(n-1)}{2} = v(2) x(f_2)$ = lo \(\left(-1)^n \(\right)^n \) \[\left(-\frac{2}{p}\)^n \] \[\left(-\frac{2}{p}\) \\ \] $\frac{2}{9} = e^{2z}$ hyg = t

100c/f-h23 2-92 fg2)= w(92) w(2) = 100 w(2)= 100 41 w(3) $=-f_{00}$ f(2) = -2/(2) (of fr) x 20 (2) (2) of Parz A - Anzi+ dyn 3 Al f(2+201) = p & 201 for f(2+201) = p' & 201 for 0711 · (fortw) - ~ ·fa+ w) = e and the /5 (1-2) W(2) fa = 212 21(\$\frac{9}{2}) = [a0+9,2+ -][ao+9+++] fer) = ngram(2) NO 2-1 2/2 = - los fran= -2 f(gr) for= +b,+to+h2+brit kg = - - b-n + - + bo + b gr + b p r +

かり2-12 1100= (1-2) v(92) w(90) = (4-95) (4-5) , 19(C) = Ao + A, 2 + = (1-2) (Aother + Argin Author + Arzat = Ao+ A, 92 + A, 922+ A 9322+ - A02 - A1 P2 - A1 p2 28 Au = Ao A, = 10 A, = A, 9- A0 AL = ALPZ- Alp Az = 4,9 = A09
(P20(P-1) A = A 93 - A p2 43 = A292 A093
P3-1 (P20(8-1)6) An= Ang - Ang gar 4021 An= Aopper prop (b-1) (b-1) - (b-1) Anz P 100 (0-1)

Noa = ren of | wew, + fel erfelradu, Af deib. A Fundam 10 1 v of 26h - 8 min of in v - 6 6 ~ ~ 06 11 2 2 m u + 2 m'w V 25 ±2±1 0 +12 en fu a oc, all, all for = (1- a)(1- a)(1- a) (1- a) evam, j 10 e- among af (m) 5 (e) + 60 + 661- + = 1/4 [1+ 1/1+ 1/1-+]= 1/4 / 101>1 2 = genrefi w On= (1-10) (1-12)

6q(u)2-63(u)2+[e,-e3]6(u)2=0 6 m = 1-96 (6,00) 2 - 1 + [l,-ls] When to 1 10 a am Veg 36 (6, 1 = 1-(RAPO) 2 am 1 = tran (Ver- 5 uk) 6,(u) - 6, cm + (er-ex 6 m = 0 (6,00) - 1 + (ex-b) siam (Ver-b, u, k) =0 [6,00) = 1- kisman (19-5 4, k) 6,(a) = 1 a K= State VI-kt ~ VB/a -E2C [Gichs] = pin - ea 10) W= 4 n $\left(\frac{6_3(u)}{6h}\right)^2 \mu(u) - e_3$ 63(W) = / ly - ly

$$\frac{da_{1}}{da_{1}} = \left[1 - (e_{1} - e_{2})^{2}\right] \left[1 - (e_{1} - e_{2})^{2}\right] \\
\times_{3} \alpha$$

$$\alpha = 3$$

$$\rho = 2$$

$$\gamma = 1$$

$$\frac{da_{1}}{da_{1}} = \left[1 - (e_{1} - e_{1})^{2}\right] \left[1 - (e_{3} - e_{1})^{2}\right]$$

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JV2-0) (24)0-9 = / ds = / dg / (a fy (a hry))

6, (- w) = 6, (w) = 7e for 1 6, w fer = 206 Gog | + +2' 6, (m) = hon-M(2) p. p. 15=0 6/00 = VAMI-1. 1. plus = 3 6, 200 + 62200 + 6320 62 m= Vpm-h-4 [6,001 6,000 6,000] = play2 6300 = V pen - ho 1 plus = 2 2 6, en 6, un 6 elyl: pour tot Gow= +w+ M(1) = - 2; + 6 (40) = 1+4854 6, (now) = e7, mx (m) 62 reffer du 6 m = = 6,1m+6,00 curo 12/18 Cent 6, ((utu) = 7 eq (4+2) 6, (u) +6, u)

Ofw= u.T. 19- w er 200- 1 w = justole Juth'u (du, du, du) = # 1- du 6(24, 2m) = 2 64 M i hopy り、入二七 v = 6(#, #) 2 1. 11 ~ 576 fr e 6(n+4) = an-2+4) =-e y n+++ 6(n+2) = e 10(4-n) O'L 6, (- w) C, u-jeh. er Paris of Life 6 u u us ver P + der y

Funn = Fai) prefiels minus Fund = et. Fin com jumer loft-full Fututul) = Futul = eg(utu) e gu Fan = ! FBE & gutul for -1 g (n+w) - gri = 2 kson ext gum) o linear Yn V gro & dirent of the refuse from a ser se the se ? V6 reesp-eti. & Ady 6, w = e - 3 th 6 th 4) 36 fe 6, a1 = e (y+n) = 6 (u+ 4) 63 (m) = e - 3/4 6 (m+4)

vo), que = EAx int X(1) = 200x wk 200/1928 igan + yan - xind = Wh 2 pin 2 Ax uk + 20 0, [u - (u+u)] = 4062 + (not) www + w most + Out [1 + (n) w v + - + (n) w v + w] + B, [x+w] + Q_0 Q_{mn} Q_{mn} Shoping But of son Sung 6-6" Mzer

a W - a W + 1(-1) カル Au12+2001+x-1)++3/0 Oui- 810 = A 4 01 [0 - 41] + (1-4) [in (0'-4) + +400(9-3)]- [30'-40) 212 Au = = = - (2-1) 7 far no onde = Non (Ev = E-) Zia Herinte: Ou'-0'0 and who frithe i stope Lonalle der g conjeq, que to y. from e qui process reade $f(u) = e^{f(u)}$ $f(u) = e^{\chi(u)} F(u)$ furu) = Fanger = Representation of the superior of the superio · Flaty to = e fin = e * Fin) Finter) = e q(u) + x(u) - x(u+u) Fw Note expeed = 10

C. Julfred & det Day & Rento 20 5 20 g ambante pr Wied. Am. XXVIII 87-107 Rodonde. 475 pr= 0'458 500 28 Flormers M2 Rex 458 M385 Cin 1. 80 tanbernok 59 Arch 48 polite 60 Cong Dimeth. Folimber 49 2/9 Comion draw 13/9 Low new Wy mit General & Somei

dip (1) = la = 6x (1) 41 11 (1) = - 2 600 (1) 6 pch 6 g (1) 6200 - 6pm + exten 6m =0 (ex-4) 6p(4) + (ep-4) 6x (1) +1 $K_{do} = \frac{6\alpha(u)}{6(u)}$ $K_{py} = \frac{6p(u)}{6y(u)}$ $K_{oa} = \frac{6(u)}{6u}$ $X_{0} = \mu(u) - \ell x$ 2 X20 X/20= 1/11 = -2 X20 Xpo Xpo I), X/20= - Xpo Xjo XPY = Xpo Xpo-XpoXpo - Xao Xyo + X po Xao Xx0 [[00- Xx0]

$$\sum_{i=1}^{n} \frac{x_{i}}{x_{i}} = \sum_{i=1}^{n} \frac{x_{i}}{x_{i}} = \sum_{i$$

6 plus - 6 yeur + [ep-4] 6(m) = 0 42 Xpx - 1 + [ep-4] Xoje 20 Tep-en] Xoy2 = 1- Xpx [la-ep] 6y n° + [ep-ey] 6an° + [ey-es] 6pin [ex-es] + [ep-ex] Xxy2+ [ey-ex] Xpx20 [ep-ex] Xy = [ep-ex] + [ex-ex] /p; X/2 = [1- Xpy] [ep-ex) + (ex-ex) X/2; Now = Xpx yx 6 am - 6 pm + (lx - ep) X/ox = xpa dya 1 - Xpx2 + [ex-ep] X2 X pa= 1 + (ex-g) xox X'x= 1+ (2-y) Xox X'x= 1+ (2-y) Xox X'x= [1-[ep-la) Xox]

18/1 e f. 32 & Del 14 (dr) = [- (e) - (a) 2] [1- [2y-la] 2] x0./I: Xao = Vep-la Vey-la 2 (ex-ep) + Xas= ex-ep + (ep-la)(ey-la)? th = - (ep-la) [1-(ey-la) 2n] (la-ey) + Xao = - (ej - la) [1-(ep-la) 2] · (& P May : 2= Nep-la Vey-la Maro " : -og ezg)

-e-g ~ Xoa II Xpy = Vep-ge 2 E & 27 = V of : 2 = Vep-ex Myse of Psynty · 14 f 6 Prot fr & 9l.

1-11 () = [1-3][1-w-y-]
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(1,-3) (dm) = [1-3][1-w-y-]

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q=ein# glas Ear e w manthe amplm me 20x = 20 g xpp-1 LCk mex mark+2 = Qx+a g2x+a mapx+x = a(p-1)x+x } 2p-1 x+x ml aputa = a g 2 x p + p p - 1 k

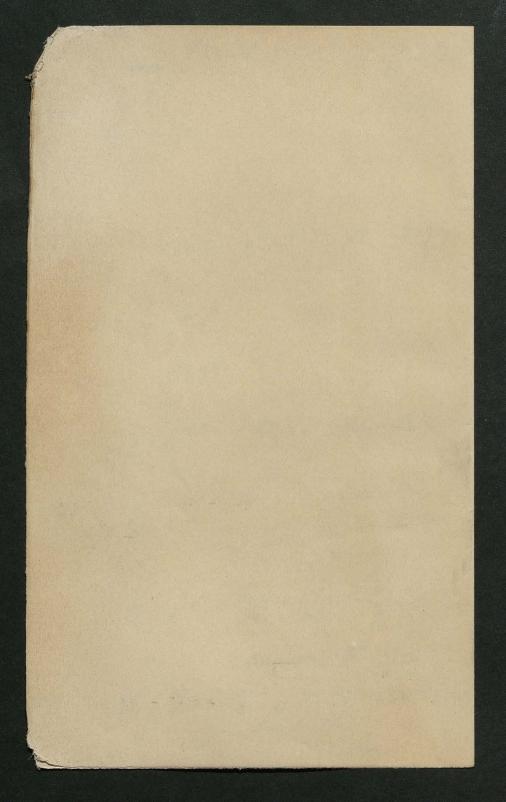
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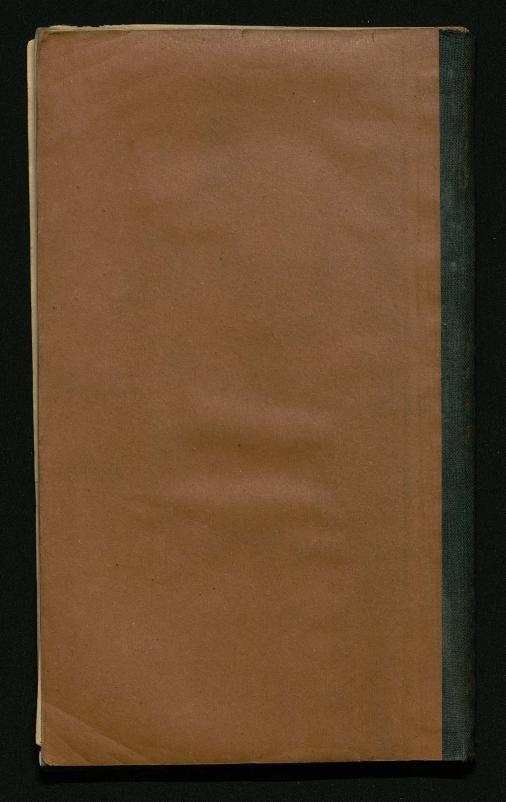
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n x+2= 2 m +1

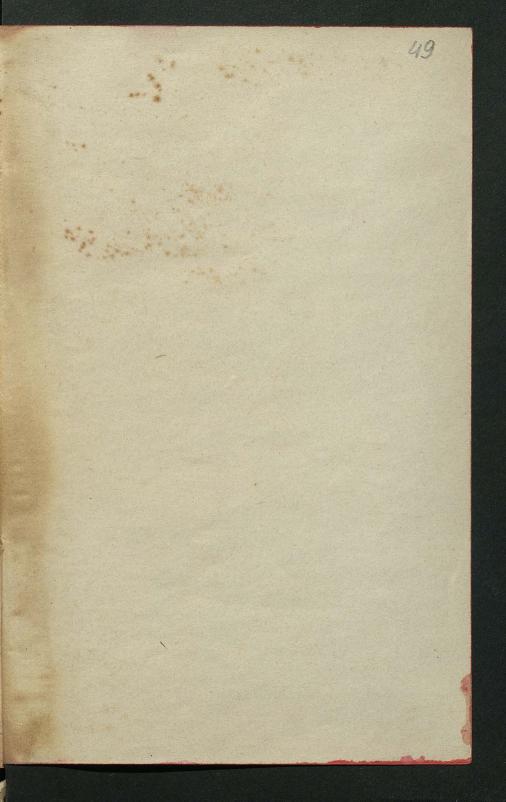
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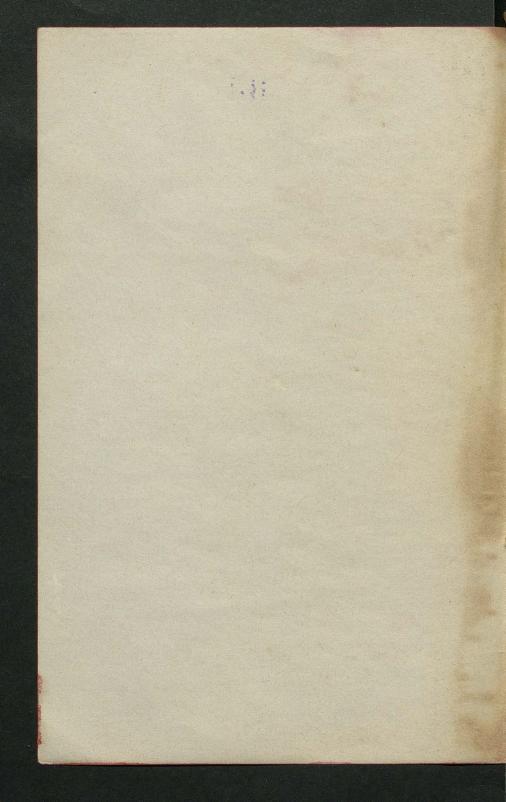


P. Reynolds On rolling friction Phil, Frans. 47 Orish mag. (5) I. 75-97 Forbdistle mg. 18#6 p 200









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e elle fle Norm fren. a c - de Coje Alt. 60 plac - N. 2 100 Cent reg - 1010, ~ erg 12 Wd N. 2. e. en af & - deput of ce. y 6 to C. a. W. - devel of you. 2/2 a ver an 32 ~ a page & ~ yan. e N. 3 = x + hu La gn sxxy = ellu den n= y+ dv y = 2+ lw g= x + lin + dx + ldn el'a ple as l 0 = (l-l)n + dx + l'dn0 = (1-1) + dy + l'dr 0 = (l-l) + de + l'ohr 325/256N 4010 De l'eloa 8-97~ - de obj de = 4 of - 2/10 C.6/10 4 v w =0 2 2 / 25 / develop Flore du de de

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$$\frac{\partial x}{\partial x} \frac{\partial x}{\partial x} + \frac{\partial x}{\partial x} \frac{\partial x}{\partial y} + \frac{\partial x}{\partial x} \frac{\partial x}{\partial y} = 0$$

$$1 + 2 - 3 = 0$$

orly elselibe € 000 00 00 =0 20 e 65 E dx dv dn =0 2 3x 3x 3x =0 ion of e de mos she dx dy dr 66 mg - 169 e D86 14 a v w 20 du de de Pasm > - Parer pr Eugerich = > gx gy gr 11=46 3× 3× 3× 3× =0 Judy Judy Just freddage Rolet. gu : and Welfer a y ged. regtar. Dupin: Pp 3 3 Porthy. Bje 9, mg

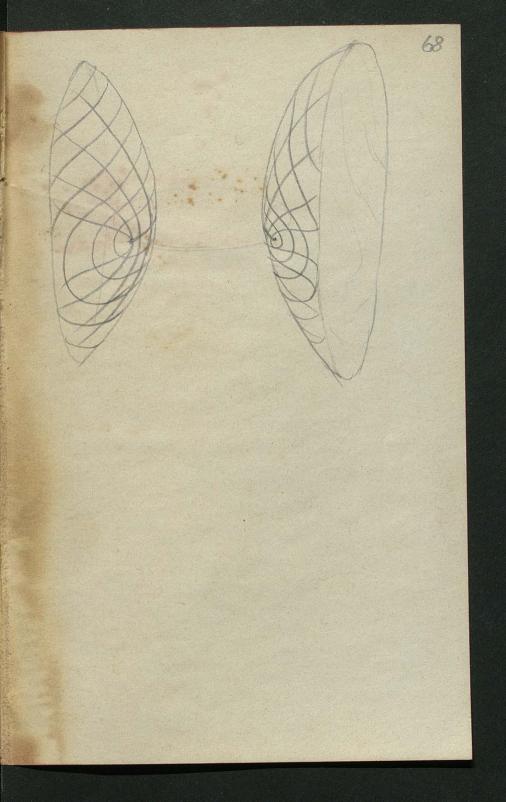
B. Rotations of 3) nthong. 62 Nervelra & Vanall Exy . ~ × × × × × × www. xyr sar x edd-63ch ×3/4 elf olse; soff elf others. on etg the po ara the creat x the com

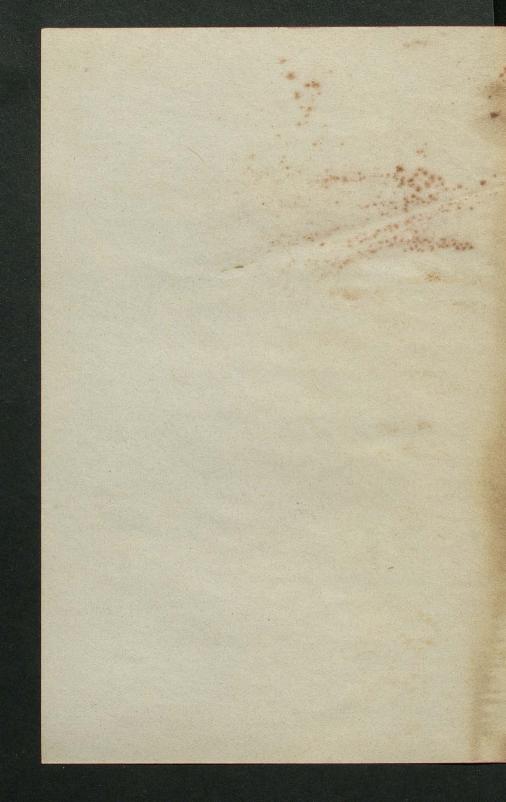
(orga) (ora). + the x) (ora) (orga) =0 ary ton ton al 27 (ard) (ar of sil 10= (a=1) (B-1) (C=1) - (b=1) (c=1) x= (a=1) (c=2) y= (er) (8-2) 2 =0 Pulhas N'I rero: -00 W, cr for Illys.

- - + == = 1 a cald 12 fre Inter. 9 10 60 36 2 19 di de de de 2,-Illywords Xx einschelges Hyperbolord As swerschelge Hyperbolorde [L d > dy 6 rd of my well. Plade w] Hy dinch cen was from Top Illiponde a deces of e e=0 x XY Ibene 22-c2 + fre= 1 - 1 < eller with 16 Freal-Illipse 6 en diagrand have the and when e alle 12/2

ムカカルーイ negs son a my and touch at = Hyperbol Vamey 200 en darbon Freathyperbel adsnor on prof comy YZIN Norgh lterophythy of

14ll 4 10/127: 00 anto < u rele 6/1982-24 sh ~ ~ ~ ~ ~







C. Nemann : 1 1 1 6 [mot] 5 2 8 2 9 612 6 p + 4 en 6 2 ce de 11 a ez un a p en cen epperendigese two se constations + (SH + EP Sp) at 20 5000 3 Horry + 3H P } ally Lyn & fil D. E ON IR 写在是 med *** Wingy tank 4-T-ll H= Kenet, Potential # : 3 (m x) = X 3 (m y) - - mg 1 + 1

Alberty, des Perniques du lugi 大 計(2月)- 大 34 年 月 Sa マンロー Sat at (2h) - di 2h = 2-MH = 2 0H 2/1 + 2 2/2 07. 07 € at at (3/4) + 3/4 2/1 at ... = 5/1. P. Elat (1: 1) - dt] = -* the d[= 1 3 H - H] = & P, dp. =Epp VesiT T = homy of fer : 5 x } = 2T oll Na & p. etc. e E = 2T- H = 2T-T+u = T+u = & act : got . Energi 100 mps 28 E m/ < / e H; exern 26 852 a. E los es for as Van 6 + 2 2 et hell &

. S S(T-U+ EPSp) dt =0 etore pres story sue EP Sp [Gran) the word - # 10 : at' = - at j' = - j H= H on & 2 + d (al) = dh : 100 2 up a -t ex ~ Pu con a relation 10. A = +ot, - A e ~ L 1 No me 101 effer of: y reversible in ele Hon 258 ordies - n hus mercat I al v dt re & Oct 18 [13, Cretc] Afrer sin my plos mot * 200 ~ 200 200 2000 2000 100 d 2 69 1 8 0 10.2 0 1/8 nd 68 2 n 50 2 d my 12 co

1 fran 1 10 6 1 1 [c ~ 8 /] 41 1 2 m y ege / es so / Py; cosz of the (3H) - 3h +P f 2 1 Ce Van Helmholte 2-0< 10 1/2 + 00 6 file 5 in. 20 = 1600 - c - 200 / 2100/2 Elastende Vorgerge Ablut der Perograf 25 / Krystell 2'2 2 - contin. Nedom, & ~ Condies 21/0 eHPd: $\sqrt[4]{\delta H} + EP \sqrt[4]{dt=0}$ where $\sqrt[4]{\pi}$, explice H = T - U $T = \sum_{u \in I} \sqrt[4]{\delta b}$ x n } ys cer/2 ii 1gre T= 1 /2 (i + i + is) dt U= pot. Em, - coy or nor place P Komen Alle fle a rou P of 95% of el

30 30 30 30 30 - 30 30 - 30 30 - 15 34+35 = xx = xx | f & 1 2 2 2 2 3 21 30 + 3N = Y= 2y 37 + 34 = 2x = X2 Wohn - 1. Jul h - Fdo C F-fe f 62 Fr 00 20 C MANO ENTER 1 26 MARCHER 18 5/12=0 er o 6 - homy. If for e 6 6 tropped Feo If I wont coup was no F=axx2+ eto. > p ~ 11 su f an ; v = Norm. 575, = /X, 5x+ /, 5, + Z, 52

2 Por = far (North Y de + Zdo) fat { sat h use + vsi+ isii) - sat set + 1 (This = do sft ods + f 5 do en de Lo Ling en of the + /d6{ Xv Su + Yv Sor + Zv Ju/ =0 i Sie park int.

[dts solt his Su + is Sv + is Sw) - solt [24 Sxx+ + 2 f dy, + 2 f dz + 2 f dx, + + fat f=0

xx = 2 w 2m Mhsney: - 2 f eto: Xx etc Ja[X x 8x + -] = [8x du -] +0X Ju + 0 x Sv) + (-) + () div - db [Xx and fut Yy and for + 2 and Jut + (Xy and Ju + X, and for) + () + ()].

er ye: Pressess kii + 3xx + 3xx + 3xx =0] kir + 3x + 3x + 3x + 3x = 0 \ e *ercor Xv = Xx wx + Xy wxy + X2 wx2 7 Y = Y core, + Yy erry + Yz core, f x, etc. 5 + 1 & 2 - , c = 2 x 1 1 2 5 = of xx e Efect Jel & homog his, for & kl 1 e/y 8 - 0 of 1 - Showing D. to soyo the de A, X, Y, H= m(x2+ i2 - mgy) fat Home of no 100 D. +5=0 +=1 x = y = 0 x = 1 / 2=0

18 1 10 2 1 Parche; (~ + 2 EA) x=t y= = gt (1-t) ven 9 + wo fe a d xoxo May y 10. x=17. y=s=t 2>8/1ef(8) So I in or De on a y specto Lat Out , 1" com < " so , or virtuelle con Olerymy eine Rolation Krigues 10 a Cardenoster Enoperation

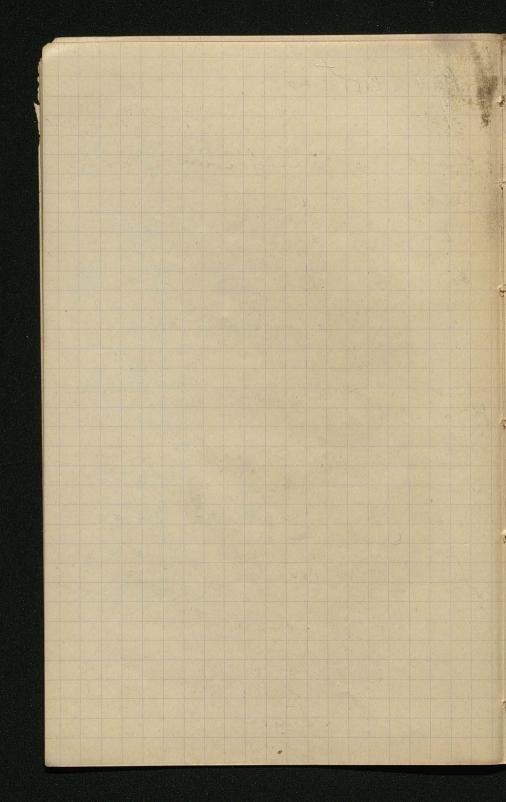
19 vertleel × &

19 horrowthat × p

19 22 - horiz so on xy Mg 6 = 0 : 23 510 A=T= = [P2+482+R2] resser Ros (20 Count of 100) R= simp sing is + us & p 9= sinf coy is - snight r= up à + j ev e (p= q c · Pot m H= = ((cinp i² + p²) + R (cip i² + j²² + 2 up ij)

ASa V 68 ; e 6 of [frimp if + Rup(upit j)] = A # [4 p]- (sip isp q 22- R(isp 2 + j) sip pil = B # [R(is/ix+j)] Ender el to el par 6, 6 el fen 6 Natery 1111, en ASO Masy 56 mm < 2 8 103 p ab 60 5 56 /ma R(isp i + j) = ont = c ji = g - 1 up 2 of the Ly simp & + cusp] -A (on [4 p] -[42 mp up - cmp2] = B er + p h con my /fr E < PUN Je on e pour Ly loo en d's x. Nen vo su lijeo c=Rupi A= 部しのかりは+ Riopi

for in and we are these / samue 44 2/2/ ~ 2 C P LSL / 2 6 18), Jacob Cool go vo. ~ y & Formenl who Cendil Cros Rolle & 8 gra Allgum. Rethode & Almholte out of Cont of Prox Court 1, no 13 (160 Con!) If It Is (set value Cond). P, etc. in = 0 cress of 50 de 8 ~ e ~ Col. H "/on - 2 - 2' H= for (p, p, p') 3/1 = 0 < 3/4 Jr 50 $P = \frac{3}{3+} \left(\frac{3}{3} \frac{H}{h} \right) - \frac{3}{3} \frac{H}{h} \qquad P' = \frac{3}{3+} \left(\frac{3}{3} \frac{H}{h} \right) - \frac{3}{3} \frac{H}{h}$ $\frac{3}{3} \frac{H}{h} = \frac{3}{3} \frac{1}{3} \frac{1$ e chim homy for y all see 7 1, 12 etc. - & de siel a el epse sp : ep als Cond. 5/8/ el p/c : cel 14 Dredne.

05 - fiff) 67 ps jid EOC, EN DS 26 " y y / < H prim ère = = = (A + \(\mathcal{Z}_c, \(\mathcal{R}_i\)) のが = のが + を るが、 るが、 = 3 [H + Ec, 2,] H- \(\sigma_i, = K = \(\pa_i, \vec{p}\) (34) = (3k) · P = 3 (0K) - 0K 2 4/9e - 5 1C - Cood. - Jpp K +4 Be 4 -6 N , o ~ K . 6 EHA f K = a 1 2 honny el ol De liveau 26 4 a 20 f co Piner. M & [Il Fore & iner.] 

JEA + E PSp) at = 0 200 1 1 1 1 - fly oca 8 es 99 11 Del ef sht, c-s , no ses so 6 - e & LMN 9 x el i v v 8 6 4 = i M = i N = i er > 2 MX = MA & (DW - DV) Y = = (3/2 - 3/2) 00 u vrs e den/; cby e elsproseste SH= ST-SU EPSp=Ell Sut EVSut = Stan Lindint =- / tim [34 Ju + 24 Ju + 37 Jus] 1 + 1 / Lu Su + M Sv +]

Sudd = - Jun [XSX+] de $= -\frac{c}{4\pi} \int_{-\infty}^{\infty} X \delta(\frac{\partial u}{\partial y} - \frac{1}{y}) dx dx$ = 40 / 2x 53Y Sw +] at. + = (X(Sor enry - 50 enr2) + 36 :. + m 8+ = c(32 - 32) m 34 = c (85-9x) in 2 P & By elm a deal valy in medales land. a pp 11th XY2 = - 3 GP LE Energy P. (# c - New 2/ - de Te - (124 324 7) [en opn mps 8] U= (3m - 3m 7 -] 00 f Nedsom Pof e Elite ar = - = [Yang-Zuay] Ppeny D St:

of uvure ocalo, coon er verselve Energy To (U. Su + V, Su + W, Jw) db dt = 06 dt/U, it = ci(2mvy - Yerr 42) tv(-)+v(-) = 4 (Zary - Yar vz) + ---= Energy flow (NY y LC) Vo 20 - spec. Interpr. e u v 4 36; the Sthe I clast of co flood 2 3 - 35 etc. 5 - 2 - 2 3 5 00/ 26. 1715 Speculles Berspil: Endleche Aurahl von Vinearen Lecture, ville & Cr elo & s in (IM eta) P Var. 6PN 218 - 1, 12/3 6-Cr 8 £, £, £, [10. El. 2 colory t H=T-U=E f= 1-11

½[I, ε, + I, ε, + --] + I, ε, i, + -- + T

frag ρ το ελεγίο

γ 2 L, = tell add da, en 8

M-L& P, P, - E, E, - m; Up = 0 P= 3 (2H) - 35 = 30T - 2T - 2[[; 2d]; + -]+
: 2 feg x/4 ele Cr six E = 2 [] [] [] [] + [] [] + ---] I Instruction gentles 1 E E, ~ C P J 1/2 E6 2 2 ENSP elitromot. Develongs glidy, To & rotherder Kyl 0 (8) - 4te Condies: 1 (-v'e) ez L Z veld Y orta = Qi2 + m[x+ y'+2"] i= x - y mig i j = j- [R+x sim 4 +2 15 p] is 2'= 2 - y conq is = 2 m

8-8/69 4 W/ 47 CPE Kna D=录 (引) count 125 " rape van ef co 0 x ex 82 21/ 60 28 200 818 c c e 1 0 porto D= x'Y'-y'X' = (xY-yX)sinp+(R+Z)Y-yZ/cop X= m[x-2;(yon p) i] | = mx-2; zin pi - pi² zip

Y= m y - 2;(p) - zin pi = my-2; zin q i +2; wpi-yi²

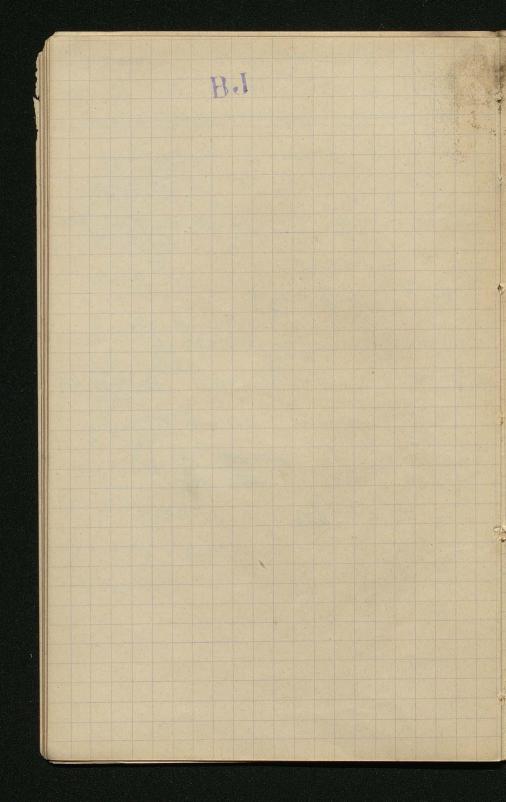
= mz-2; wpi-pi corp evar ef se & elimina s vol -: at =0 it = cont frobte criss cols 20. 7 gr = 2=g X=Y=0 x-Rising=0 y-yor =0 z-Risinp=g 2- 4 fold of An 1 1/30 CS. 45 12 0 100 rens, myggm jas: 9 = × - 2 / 2 / 2 / - 9 = 2 - cy sx. n 2 sm :. x=0 2 + 94 y = 1 in 4 gts

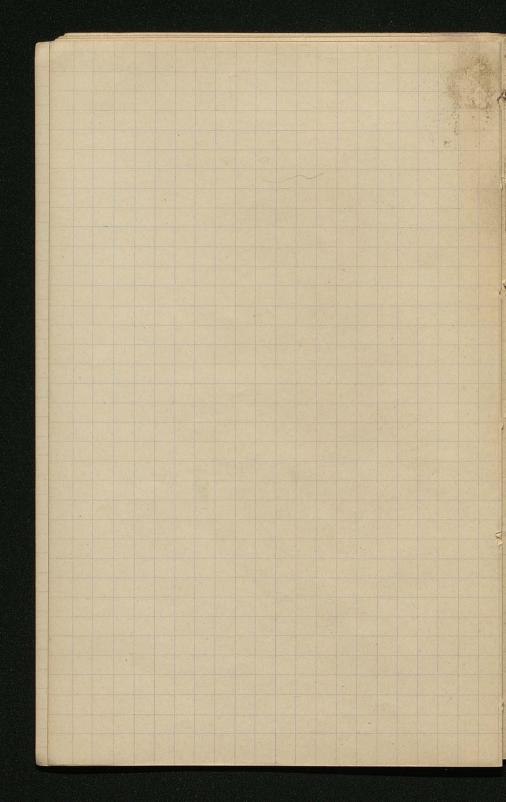
dE = dq = Pdr oll = as 1-2 0 c + 0 HSL y, 0 Von - 6 P. 2 8 = 10 Vol

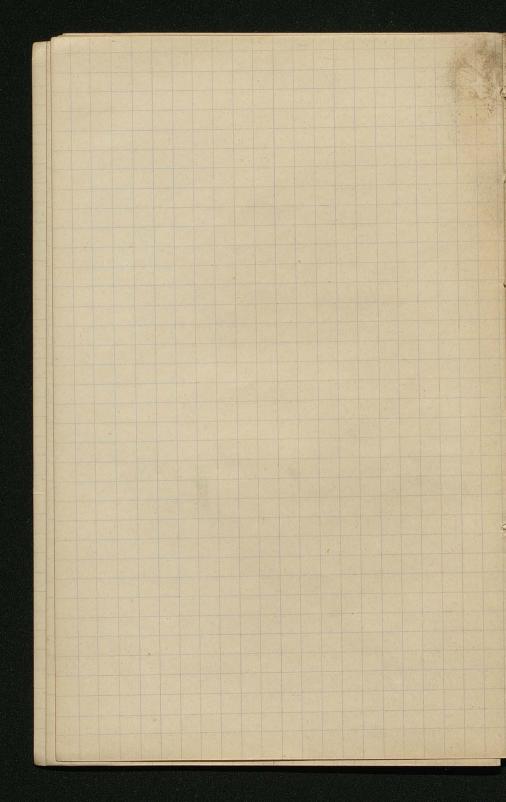
Dt = N+N' if 8 h g r P Concerto M a 9 y Ag U1 × 6 × Come. & R W1; ~ NO3 9101 × a 8 e 16 Rg 8 rd CeAn. HA BY NAN' CZ DOTTEN - STO LIN = n' U= 17el & Jones P-Tatement, celect. Folder E gr. mol. Noz ~ 1 cm3 - 3 18 (= 31) CUXP = JAn CVAP = JAn' $U = \frac{Jn}{\xi \varphi C} \qquad V = \frac{Jn'}{\xi \varphi C}$ 2= Elin = g ografon.

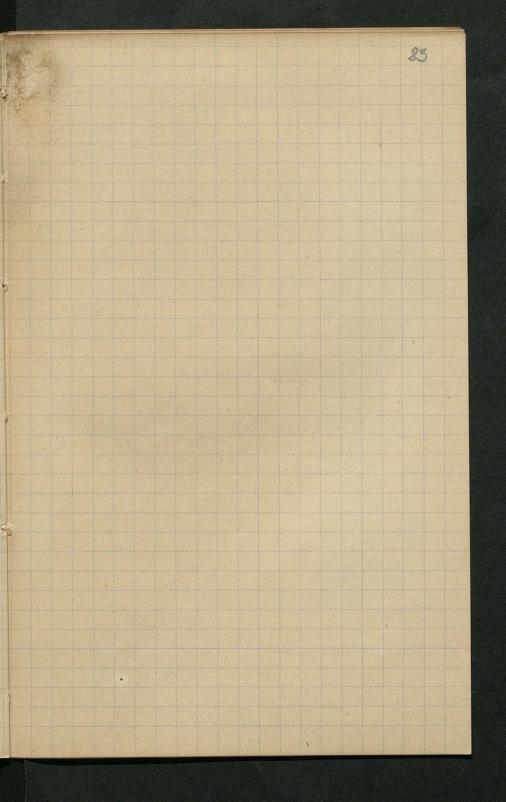
wi Hele is 10h 5% Ling 2=9658 J= 10-1 26:5 gn gron 9=10 C= 1/30 n=081 U=0.000 61 cm V=0.000 14 cm pm. Potentile P x = 15p U= KPm V- KPm htr- EF K = moberles (A) Lfun Mage In and estador p4 2n' - elp A ofr. 2 are ; - 9 additify in by I 2 Kathon sy 12 Amon or freleg (Kolhand: or of e hour) 1= 40 + 00 up = U = 0 = 0 100 = 2 3-7 600 an Me P=1 ×9

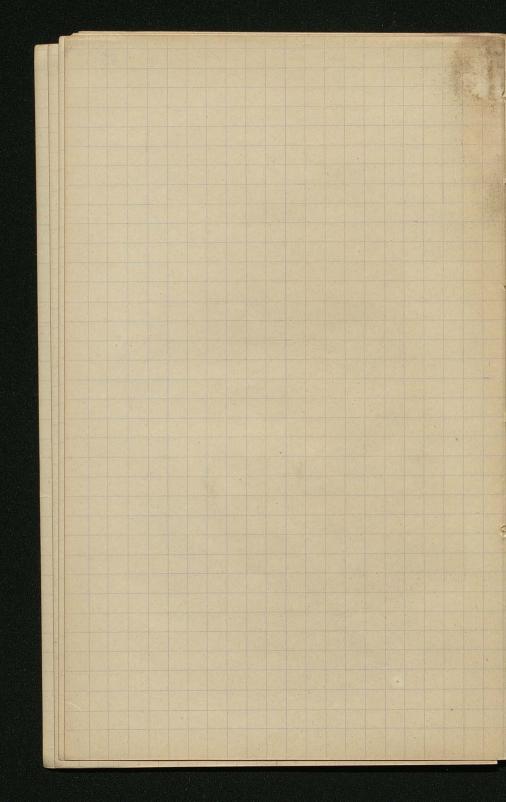
K No Lor Ag NAO A ces 18°C qualot 60 41 33 52 60 290 80 v 107 63 63 58 52 54 165 44 33 Ce 7 NO3 CeO3 CeO4 HO CHO, Crt202 dabet ist or h = K / y g grande of g grande 12th m = 1000.C [sffe en of Af Ag] 20, n, Ag NO3 52+58 = 0.473 / Ag 201. 170 8 & re 1 Koll pro com 18h = 1.0 63 ldg En P=108 2=9653 (colo) = 1 1000. uo. 24 $U = 15^8$. 10^3 . $10^{\frac{7}{5}}$. 52. 9653. $10^{\frac{5}{3}}$. $10^{\frac{5}{3}}$. = 52.107.1102



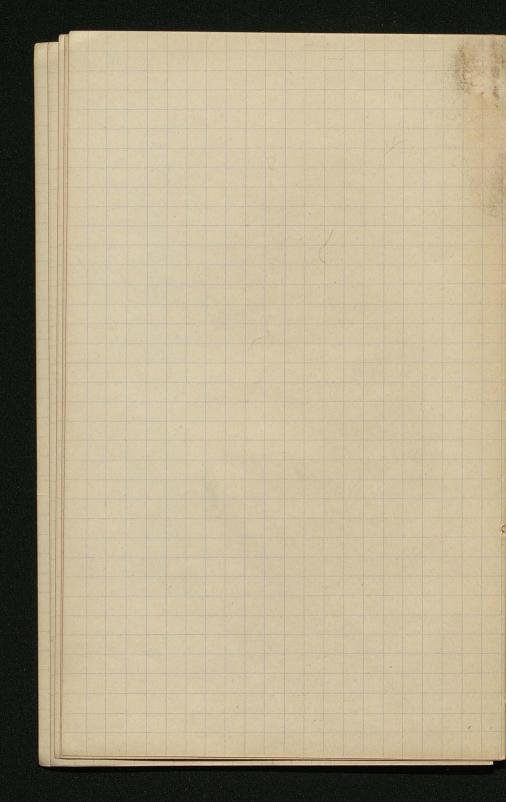






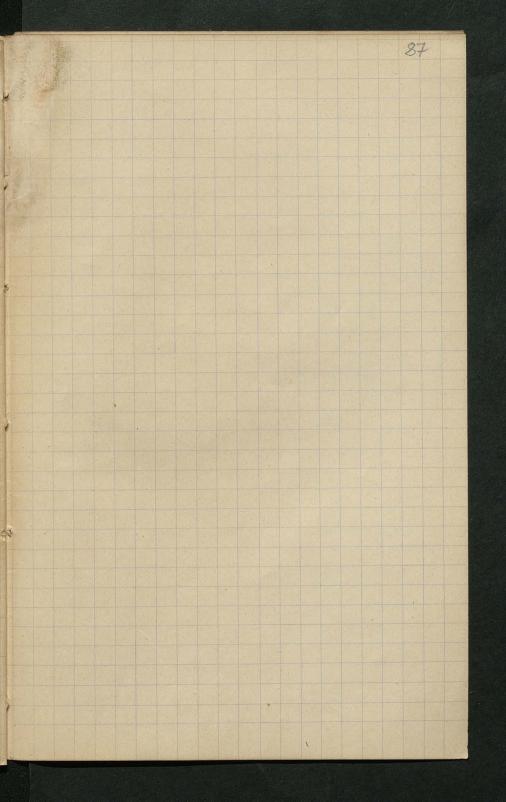






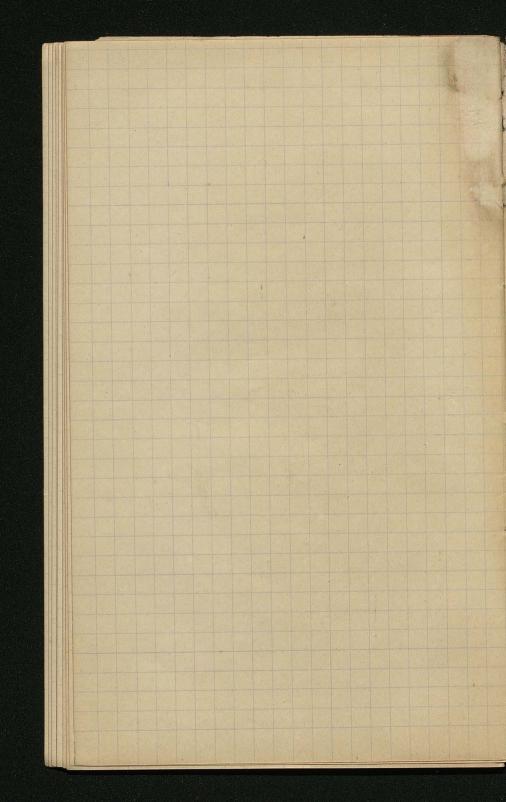


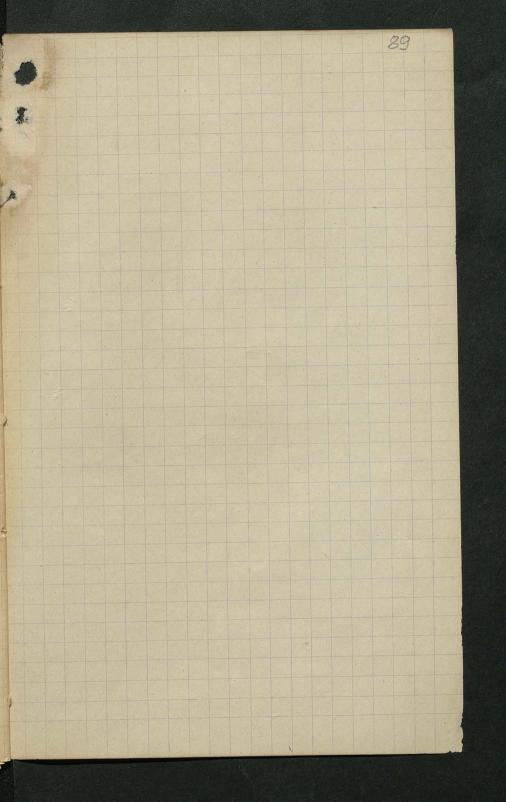


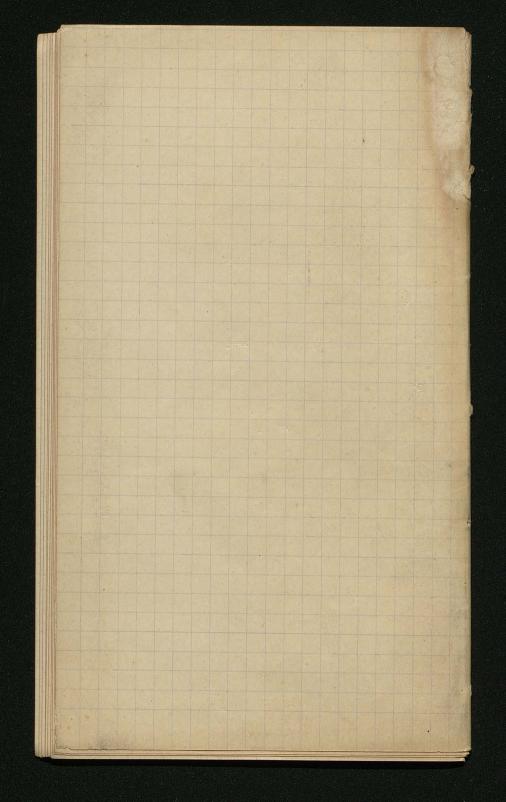


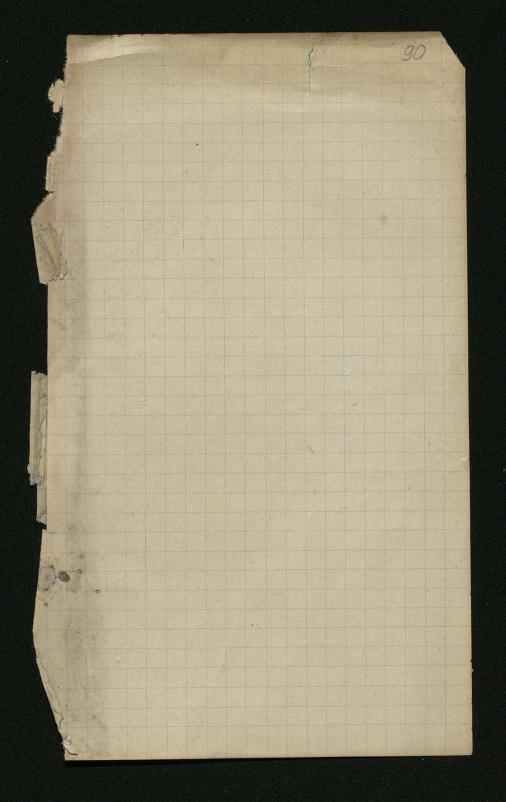


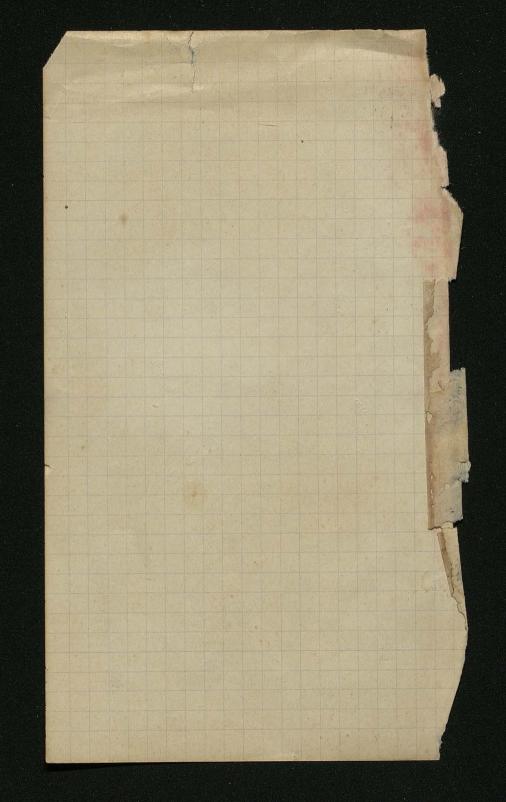




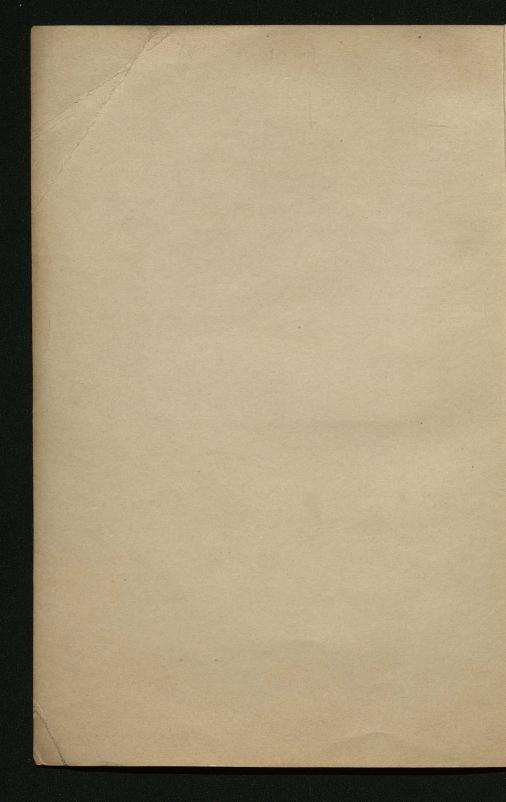


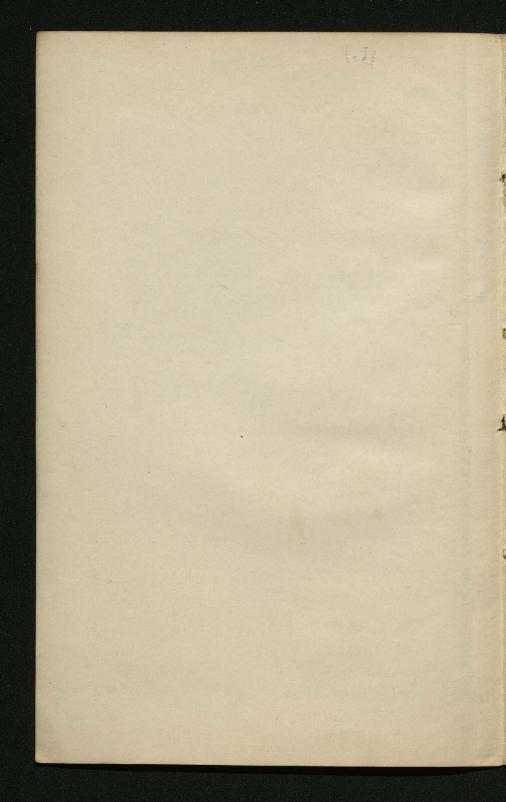












Riemann: Partielle Defferential-Il. und Amoundringen out Ohyrik. Orannochweig 1869 Viewy. Newtons Orinospia photosylvae net, meth. 1687 Existe of 1916 as p. D. S. J. S. J. D 2'slimber [] 1747 Fourier's 8 / 8 a 18 04 I Bestemmte S · with a g, x, g, x, g, x3 (b-xn-1) f(9n) $S = (x_1 - a) f(g_1) + (x_2 - x_1) f(g_2) +$ a Mayb, mand y D, and Saran amal a Philof, 6 & 100 e:0, M risht } 1 So 3). M-m 6 C (b-xn'-1) f (fw) BW x 3): M=(x',-a) f(3')+(x'2-x') f(3'2)+ (b-x"-1) f(9"") m=(x",-e)f(5")+(x"-x")f(9")+

ance An / for 16 on 16 e 2 Duelo a, me - ryos M=(n,-a) f(p's) + (n-h,) f(p's) + -(b- np+) f (P/n) In stranger per por of 1 m=(h,-a) f(p") + (h-1,) f(p") + (b-nm) f(p") M-m= (n-a)[f(p')-f(p")]+(n-n)[f(p')-f(p")]+ + (b-1, -1) [f(p/n) - f(p/n)] 8' 2 5 8" 2 m 9 < 8° 25 Me a Le 1 2 m d'af ra - rass a: d= 76 g a farmen ce x 25 08 6 "est [ke's lie"] <5 eri M-m < d[r,-a+r,-r,+r,-r,+ b- 2mm) M-m < d (b-e) crepp. Pr-wo do the I fix de lim {(x-a) f(a) + (x-x) f(x) + (b-xm-1) f(xn-1)} = lim {(x,-a) f(x,) + (x,-x,) f(xx) +} Wallis og & C. We way of): y=mxk [f & Tarel.] ede M: a x, x2 - xn, & m - geom. Trigo, ve xv = a 5 v

$$\begin{aligned}
& = \sum_{v=0}^{m-1} f(a6^{v}) a 6^{v} (6-1) \\
& = \sum_{v=0}^{m-1}$$

Symple-
$$\int$$

$$\sum_{\nu=0}^{m-1} (x_{\nu+1} - x_{\nu}) \left\{ \sum_{m=0}^{m-1} f(x_{\nu}, y_m) (y_{m+1} - y_m) \right\}$$

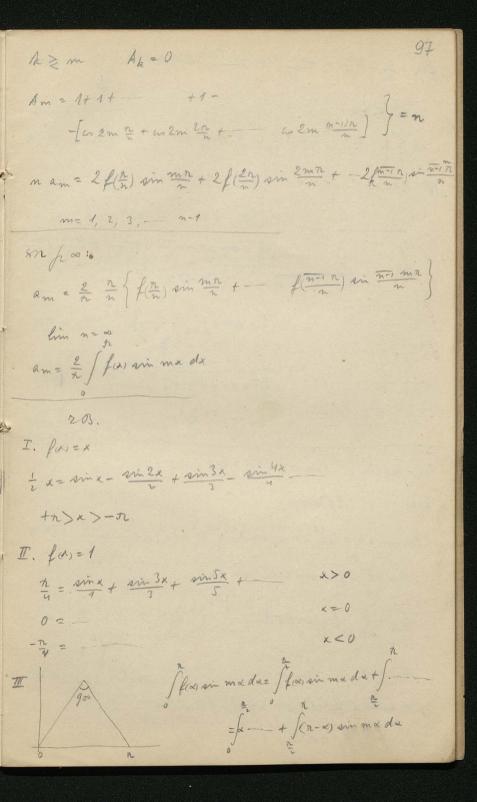
$$= \sum_{m=0}^{m-1} (y_{m+1} - y_m) \left\{ \sum_{\nu=0}^{m-1} f(x_{\nu}, y_m) (x_{\nu+1} - x_{\nu}) \right\}$$

$$\int_{a}^{b} dx \left\{ \int_{a}^{b} f(x_{\nu}, y_{\nu}) dy \right\} = \int_{a}^{b} dy \left\{ \int_{a}^{b} f(x_{\nu}, y_{\nu}) dx \right\}$$

Simpy dy = Sampy dry Set de = Jds Je y sospy dy $\int \frac{\sin \beta y}{y} dy = \begin{cases} \frac{\pi}{2} & \beta > 0 \\ -\frac{\pi}{2} & \beta < 0 \end{cases}$ Jain y corpey dy = 1 / sin (1+1) dy + 1 / sin (1-1) y dy $\int \frac{\sin y}{y} \sin y \, dy = \begin{cases} 0 & y > 0 \\ \frac{\pi}{y} & y = 1 \\ \frac{\pi}{y} & 1 > y > -1 \end{cases}$ Jysinkydy = Jaskxdx Je-xysinkydy = f k us dx dx

= lim in { 1+in + 1+(kn) m} = [dx = lvg k

an, sin (m-1) x fex) = a, sin xt or sin 2xt -=0 |x=0 |x=n 0 < x < n 1 (m-1) & 6 x 10 d d x y " + Mpe on , 5 lb $fdx x^n : \frac{n}{n}, \frac{2n}{n}, \frac{3n}{n}, \frac{mn}{n} = \frac{(m-1)n}{n}$ y, y y y ym yn $f(n) = a, \sin n + a, \sin 2n +$ 2 sin m n 2 - sin 6 -1) 1 $2\sin m \frac{2n}{n}$ an - sin (n-1) 2n $f\left(\frac{2n}{n}\right) = a, \sin\frac{2n}{n} + e_1 \sin\frac{2n}{n} +$ any sin (n-1) (n-1) n 20mm (n-1) n $f(\frac{(n-1)n}{n}) = a, \sin \frac{n-1}{n} + \dots$ fole & Lagrange fot so lough am i. ein k m-112 sin m (n-1) A e Na ax: Ax = 2 (sin k 2 sin m 2 + co(k-m) n-1) n = co (k-m) + co (k-m) 20 + as (k+m) m-112] -Les (k+m) n 0= cn0+ cn20+ - cn(n-1)0 2 cn0 $(1-1)\theta$ $= (1-1)\theta + 3$ $= (1-1)\theta + 3$ $= (1-1)\theta + 3$ $= (1-1)\theta + 3$ 2 s is 0 = 1+ in 0 + in 20 + + 6,20+ 82-1+ sin (2n-1) + 2 sin &



$$f(x) = \frac{4}{n} \left\{ \frac{\sin x}{1} - \frac{\sin 3x}{3} + \frac{\sin 3x}{5} +$$

$$\varphi(x) = \frac{\varphi(x) + \varphi(-x)}{2} + \frac{\varphi(x) - \varphi(-x)}{2}$$

$$\frac{\varphi(\alpha) + \varphi(\alpha)}{2} = \frac{b_0}{2} + l_1 \cos \alpha t$$

$$\lim_{\alpha \to \infty} \frac{2}{r} \int_{-\infty}^{\infty} \frac{\varphi(\alpha) + \varphi(-\alpha)}{2} \cos m\alpha d\alpha$$

$$\frac{(4x)-(4+x)}{2} = a, \sin x + a_2 \sin 2x + \cdots$$

$$am = \frac{2}{h} \int \frac{\varphi(x) - \varphi(-x)}{2} \sin mx \, dx$$

カンメンハ

Convergenz - Devers [m. Dri Alex (Crelle IV, Dove I) Sorti = 1 lo + li us x + le us 2x+ bn conx ta, sinx ta sin'x t an own nx = i / ga sin(2n+1) d-x
-n 2 sind=x

2 sind=x $\frac{d}{2} + co 2\beta + co 4\beta +$ $\int -d\beta \frac{n}{2} = \int \frac{n}{\sin(2n\pi)\beta} d\beta$ $\frac{n}{2} = \int \frac{n}{\sin(2n\pi)\beta} d\beta$ co 2 m/ = sin (2nd) p = 1 + 1 + -= po - p, + pr
pros = (-1) */ 2 m h p dp

(voint) 2 m h p dp sin (0-in fring pdp > pri) Sin the form $\frac{2}{h\sin\frac{\sqrt{n}}{n}} > \rho_{v-1} > \frac{2}{h\sin\frac{\sqrt{n}}{n}} > \rho_{v} >$

$$\frac{n}{2} < p_0 - p_1 + p_2 - \frac{1}{p_0} + p_2 + \frac{1}{p_0}$$

$$\frac{n}{2} > p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

$$\frac{n}{2} > p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

$$\frac{n}{2} > \frac{n}{2} + p_0 - p_1 + p_2 - \frac{1}{p_0}$$

$$\frac{n}{2} > \frac{n}{2} + p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

$$\frac{n}{2} > p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

$$\frac{n}{2} > p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

$$\frac{n}{2} > p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

$$\frac{n}{2} > p_0 - p_1 + p_2 - \frac{1}{p_0} + \frac{1}{p_0}$$

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$$\frac{n}{2} > p_0 - p_1 + p_1 - \frac{1}{p_0}$$

$$\frac{n}{2$$

$$\rho_{\nu-1}, f(\frac{\nu-1}{h}) \ge n_{\nu-1} \ge \rho_{\nu-1} f(\frac{\nu n}{h}) > \rho_{\nu} f(\frac{\nu n}{h}) \ge n_{\nu}$$

$$T > \rho_{0} f(\frac{\nu}{h}) - \rho_{1} f(\frac{\nu}{h}) + \rho_{1} f(\frac{\nu n}{h}) - - - \rho_{2n-1} f(\frac{\nu n}{h}) \ge n_{\nu}$$

$$> f(\frac{\nu}{h}) [\rho_{0} - \rho_{1} + \rho_{1} - - - - \rho_{2n-1}]$$

$$T < \rho_{0} f(0) - f(\frac{\nu}{h}) [\rho_{1} - \rho_{1} + \rho_{2} - - - \rho_{2n}]$$

$$T > f(\frac{2mn}{L}) \left(\frac{n}{L} - \rho_{yn}\right)$$

$$T < \rho_0 \left\{ f(0) - f(\frac{2mn}{L}) \right\} + \left(\frac{n}{L} + \rho_{yn}\right) f(\frac{2mn}{L})$$

n=0 h=0 lin p=0 lin py=0 m=0

himT = 2 for

lin S (c+f(p)) at hy op = 2 (c+f(o)) linfe -- = ne en fap who de = a for liste ft) - - = 2[-fa) of re les a wed for Pros a de. M. of a rex hi of s f. + 5 = 2 fco) Aur pen Efor a en konzas o D. Stop op s stradsapped afensay-reglethiner/15. $\int_{2n+1}^{\infty} = \frac{1}{2n} \int_{-\infty}^{\infty} \frac{1}{2n}$

lin Senso =
$$\frac{1}{2} \left[\varphi(x+0) + \varphi(x-0) \right]$$
 $x>2 > -n$
= $\frac{1}{2} \left[\varphi(x+0) + \varphi(x-0) \right]$ $x=\pm n$.

$$\varphi(\frac{c}{n}) = \frac{1}{n}b_0 + b_1 \cos 2 + b_1 \sin 2 x + \frac{1}{n} \cos 2$$

$$\varphi(x) = \frac{1}{c} \left\{ -\frac{1}{c} \int \varphi(x) \, dx + \sum_{n=0}^{\infty} \int dx \, \varphi(x) \, dx \, \frac{mn}{c} \, d-\epsilon \right\}$$

$$\frac{mn}{c} = \alpha \, \left[\sum_{n=0}^{\infty} dx \, \left\{ \int dx \, \varphi(x) \, dx \, d(x) \right\} \right]$$

$$\varphi(x) = \frac{1}{c} \int dx \, \left\{ \int dx \, \left\{ \int dx \, \varphi(x) \, dx \, d(x) \right\} \right\}$$

retho den en Euris Afrikanny einer D. Il, mit av. Il. 1). as day + a dans + +any = X /x 2 dx Janzy dx= f-San- 2 da de - an- 2y - /y dlama de den den den den +61) man 2 20 Ixadaey (ann 27 + offe (+ dry ar 2). y= u.v and for X = u das down + a, down + + ohn of mad drive + + dru as v

 $n_{m} = \varphi(\overline{m-i}\theta) \left\{ \chi(x, t-\overline{m-i}\theta) - \chi(x, t-\overline{m}\theta) \right\}$ $n = \frac{2}{2} \varphi(\overline{m-i}\theta) \underbrace{\chi(x, t-\overline{m-i}\theta) - \chi(x, t-\overline{m}\theta)}_{\theta} \theta$ $= \int_{m=1}^{\infty} \varphi(x) \underbrace{\chi(x, t-\lambda)}_{\partial t} d\lambda$ $n = \frac{x}{2a \sqrt{\pi}} \int_{\theta}^{t} d\lambda \underbrace{e^{-x^{2}}_{a x^{2}}}_{dx^{2}} (t-\lambda)^{-2} d\lambda$

on = d too u = 0 u = yot + earn E(-1) m sin mon ya e er (m) that da Fire Rugel mit Derwiks der Ansstrakhung (Rugelfe) Schwingungen elastracher Riger Dewymig der Flissogheiter.

$$\frac{1}{3-\frac{2}{3}} > \frac{1}{2} > \frac{1}{3+\frac{2}{3}} \qquad \left| \begin{array}{c} \rho \text{ de dd de } \int \\ 103 \\ \frac{M}{3-\frac{2}{3}} > \frac{1}{2} > \frac{M}{3+\frac{2}{3}} \\ \frac{1}{1+\frac{2}{3}} > \frac{M}{1+\frac{2}{3}} > \frac{M}{1+\frac{2}{3}} > \frac{M}{1+\frac{2}{3}} \\ \frac{1}{1+\frac{2}{3}} > \frac{M}{1+\frac{2}{3}} > \frac{M}{1+\frac{2}{3}} > \frac{M}{1+\frac{2$$

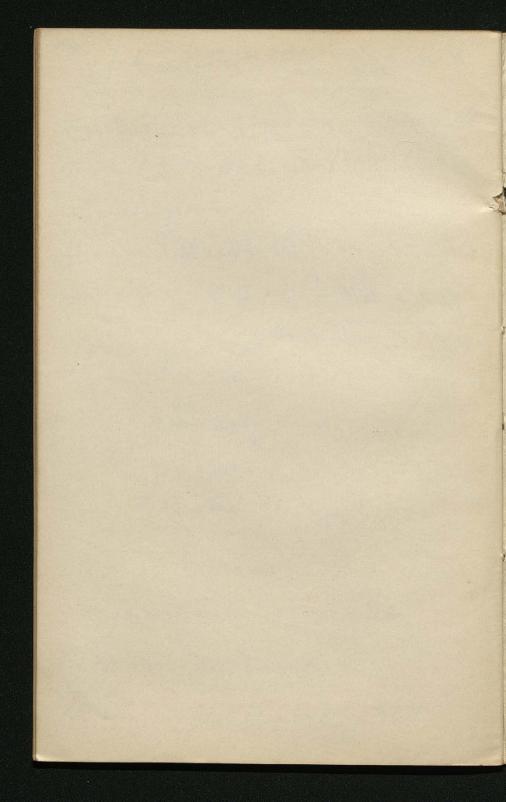
I und the Deriv. für ein, immeren Cunkt V= II pda dbde ~ ML co at it raid coop by tradaing ct2 t rad T= Solp son I dit fordr Wale & Daly ebenso mos ~ sport of C. Transf.: c 2 4 X = Samp de Son it dit podr it XYZ Pfaggs Y = \sin p dep \ - R Ze say sand de spor 2 × 2 × 2 × ele. 112 2 with on a resof For ele 1 C. yl, 6 wf. Time I pain of do do do dr of -1 + 3 sind cosig) ehr of r=0 efstlear-polaradige of for de publish, line = 0 er - & Trensformation: The = Mp 2(-1) de de de $\int \rho \frac{\partial (-\frac{1}{2})}{\partial a} da = -\frac{1}{2} + \int \frac{1}{2} \frac{\partial \rho}{\partial a} da \int C \frac{1}{2} \frac{\partial \rho}{\partial a} da$ $\frac{\partial V}{\partial x} = \int_{-\infty}^{\infty} \frac{1}{2} \cos \alpha \, d\alpha \, d\beta + \int_{-\infty}^{\infty} \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \sin \alpha \, d\alpha \, d\beta \, d\alpha$ Voransaty. P Su PSE en a l' Transf. on / Re 11~2 6, 5,000 %. 6 < wel 6 g - on of Rad, & signor 6 e (18 mp) = < p, / d6 $<\frac{\rho}{\epsilon}\int d\epsilon = <4\pi\rho, \epsilon = 0$ e Genfill =0 / 2=0 [1/R 160] o wers or = Mp de de de la eclar

Dy = (3 (h) penado + (1) 3(h) 3p dadhde god ne (und under tile en efte en app st, com- SUs e Cop 8/2/. De & Pefer V sa Derry. 146 5 2 8 / 2 5 3 8 rded, of 3 or a for Lep. Is sport. of green agont o V lan = Profectyr), My 28 ASL - 586 W e ele ps - 50 6 el 1: wo en Der Porc -al R= E yp V=V+V2 1 12 re - m = 3 /2 81/2 . I lim d (2/2) =0

2 /1 = | 2-x p de de de f- 8/10/4 cientenders et 6 pregungsmen · lin d(V)=0 lind () = lind () + lind () = 0 . For a & Deriv. su Pfc. DV:

/ re co(rn) do; Sata von Sans eyr - in f; e compe-fn receto a le Normale 14 x n: No tracoan [a co-1] N= 8-87 + (b-y) + (c-2) " on = coun on = coun, on = con cs(rn) = dr dr + dr dr + dr dr on = dr f Note = f to co(ren) of = 4n Celmanor = 0 a e may = 2n 4~101 mobiles. 6 8 fl 20 m. 5 20 =dm N= faras(rn) den = of 65 "((ag) still 2m MINd6 = [Nd6] transmidm = SPARST = Sand Stras and de = 4n M

Maser a teros frem on en on Fyl. Mas - p - - - - -Lacely en the fety (T) M)T CMS-p-11/10/2mono Total Andon JN d6 = 2 AM 20. I - rector. Parellely. alm M, ANN I Nall = 4n M INM = 2n M nio, M J Well = n M a Mas 8 Water JNd6 = In M 6 4 2 7 9 20 pl



Verdechting einer zasförmigen Tratine im einen rassemmotteljumkt herum.

$$\mathcal{D} = f(n) \quad \mathcal{D}' = f(n + \Delta n)$$

$$\mathcal{D} : \mathcal{D}' = \mathcal{P} : \mathcal{P}'$$

$$\mathcal{P} = (n + \Delta n)^2 4 \pi . \mathcal{P}' + \frac{M_m}{n^2} k$$

 $m = 4n^2n dr. \frac{D^{(1)}}{2}$

$$P = (n+\lambda n)^2 P' + Mn^2 An \frac{D''/k}{3} P! P - MAn \frac{Dk}{3}$$

$$\frac{D'-D}{Ar}:D=\frac{P'-P}{Ar}:P$$

$$\mathcal{D}: \mathcal{D}_{\bar{0}} = \mathcal{P}: \mathcal{P}_{\bar{0}}$$

$$\frac{\mathcal{D}}{\mathcal{P}} = \frac{\mathcal{D}_{\bar{0}}}{\mathcal{P}_{\bar{0}}}$$

$$\frac{dD}{dr} = \frac{dP}{dr} \frac{P_0}{P_0}$$

$$\frac{P-P}{\Delta r} = \frac{p}{P} - \frac{M\Delta r}{\Delta r} \frac{D^{\dagger}k}{g} - \frac{P}{g} = -\frac{MD^{\dagger}k}{g}$$

$$\frac{dD}{dn} = \frac{D_0}{P_0} \frac{MDk}{g} = 0$$

$$\frac{D_0}{P_0} \frac{Mk}{g} = a$$

$$\frac{D_0}{P_0} \frac{Mk}{3} = a$$

$$\frac{dD}{D} = -a dr$$

$$\frac{D}{D} = -a n + b$$

$$\frac{D}{D} = -a(n - no)$$

$$D = D_0 e = D_0 e = D_0 e$$

$$c = \frac{D_0}{-a no} = D_0 e$$

$$c = \frac{D_0}{-a no} = D_0 e$$

$$e$$

$$D = D_0 e$$

$$e$$

$$c = \frac{D_0}{-a no} = D_0 e$$

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$$D = D_0 e$$

$$e$$

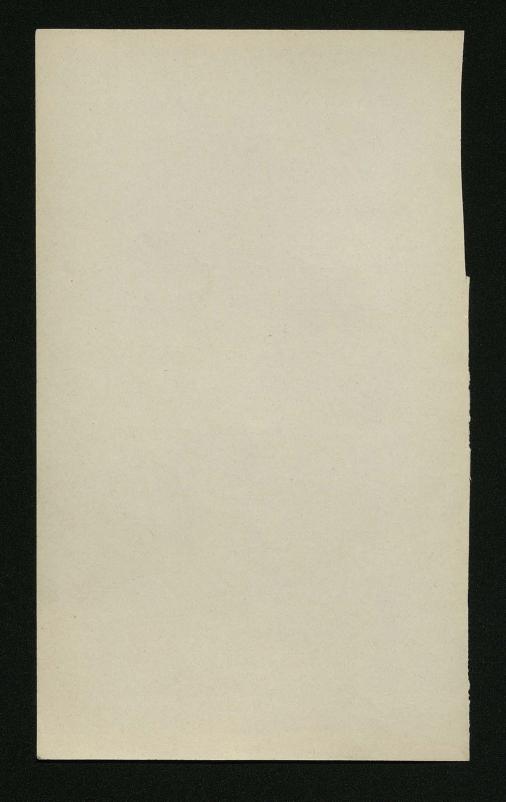
$$for M = 0: a = 0$$

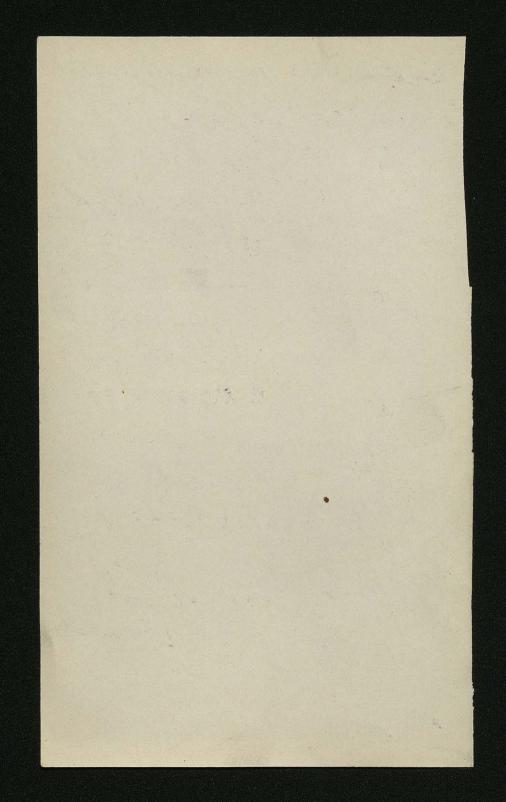
$$D = D_0$$

$$e$$

$$for m = 0$$

(=-4cn e [=+ 2n + 2n + 2] = 4 cn e = [= + 2 + 2 + 2 1] R n eine Restil entwickelt: $\frac{3}{12} = 4cn \left[1 - ar + \frac{a^2n^2}{1.2} - \frac{a^3n^3}{1.2.3} + \frac{a^4n^4}{1.2.3.4} - \frac{a^5n^5}{5!} \right] \left[\frac{n^4}{a^4} + \frac{2n}{a^4} + \frac{2n}{a^4} \right]$ $=4cn\frac{x^2}{a}-x^3+\frac{ar^4}{2}-\frac{a^2r^5}{3!}+\frac{a^3r^6}{4!}-\frac{a^4r^7}{5!}+\frac{1}{4!}$ + 22 - 22+ 22 - 20 2 + 202 - 202 + - 202 - 203 + -+ = 3 - 2n + 2n - 2n3 + 2an4 - 2a2n5 + $=4ch\left[\frac{2}{a^{3}}-\frac{2x^{3}}{3!}+ax^{4}\left(\frac{1}{2}-\frac{2}{3!}+\frac{2}{4!}\right)-a^{2}x^{5}\left(\frac{1}{3!}-\frac{2}{4!}+\frac{2}{5!}\right)+\frac{1}{4!}\right]$ beim Substituiren der Grenz werte fällt das enstelloed herans, also anch: $S = 4 c \pi \left[-\frac{n^3}{3} + \frac{a \pi^4}{4} - \frac{a^2 \pi^5}{10} + \frac{a^3 \pi^6}{36} - \frac{1}{10} \right]^9$ $=4cn\left[\frac{1}{3}-\frac{2n^{4}}{4}+\frac{2^{2}n^{5}}{10}-\frac{2^{3}n^{6}}{36}-\right]^{R}$ In der that gift object for M=0, a=0; $S=\frac{401}{3}\left[R^3-\rho^3\right]$ Der Uberschuss des Sesonnortgewicktes über jenes, produce M=0, inti-9-80=6=9-20

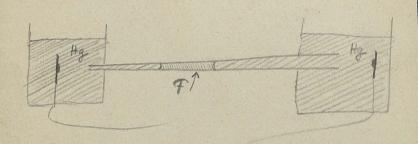




Sporation o to I de a theorie Il have to-i anteldi A Ca / 20. 2, A ge go on a celf of et [Trey way] DA' word of congress all, aneliden gir an otenue of A'D o Crop of a a le yvar ce pin }. q. e.d. vormens " De l'es a no 251 vol; fe och all; a 203. 1 non AB 9 N A'B' Nort orccipy of ole, ce CDP / P Gir who 2 [9 Dusy & Stefan]

Bletch gerichteretteilung von Elek tricket auf einem System von 2 ein am der berit hrenden Rugel 42 m V re re m. el rose el su se el Inter wo no Fred who of 62, s lad: La = 9 = 9+9 P+2 = Ma C =10/9.2 Pange Fin q= ath q:q=a:b

fig= 22: 82 C= Q+ 2+ & b+ 2a = P(a+2b) + 2 (2a+b) Apparet zur Calibrinning von Röhren andelektrischen Wege (Widerstandsbestemmung



In die Rohre wird ein Strick einer schlecht lectenden Plürdsgleich einzersgen F; word ist die Rohre genz mil (2B) Gueckorlber tog anzefriell. Fells mm der Guerschmitt myleich ist po indert sich auch die Lainge der schlecht lectenden Plüssighestssände im aus bes den Srimden der Wiedersbarnt.

 $w = \sum_{n=1}^{\infty} \frac{\ell}{2}$ $\leq w = 2 + 2 = 2 \int_{2}^{\infty} \frac{\ell}{2} d\ell$

I ist dann das Ohnische Seseth work. Jenan geltig: wenn der Inerschnitt reeschoeder in

 $\mathcal{I}_{i} = \alpha \int_{0}^{\infty} \frac{dx}{2} + \beta \int_{0}^{\infty} \frac{dx}{2} + \alpha \int_{0}^{\infty} \frac{dx}{2}.$ $W_2 = 2 \int \frac{dx}{2} + \beta \int \frac{dx}{2} + \alpha \int \frac{dx}{2}.$ $2 = x, + \frac{\xi}{\xi}$ $2 - x = -x \int \frac{dx}{\xi} + \int \left[\int \frac{dx}{\xi} - \int \frac{dx}{\xi} \right] + x \int \frac{dx}{\xi}$ $x = x, + \frac{\xi}{\xi}$ $x = x, + \frac{\xi}{\xi}$ $= (3-\alpha) \left[\int \frac{dx}{2} - \int \frac{dx}{2} \right]$ $v = \omega n d \cdot = \int q dx = \int q dx = \lambda_2 \left(\frac{q}{q} \right) n$

4.生花三百里 Herm der Widerstamt a gigen den gree Widerland Ban remoblerorgen ist, so kann man sehen: $W_1 = P \int \frac{dx}{2} = \frac{A\lambda_1}{(2.1)}$ (q)=14 $N_2 = \beta \int \frac{dx}{2} = \frac{\beta \lambda_2}{(g_2)}$ $\frac{2f_1}{2f_2} = \frac{\lambda_1}{\lambda_L} \frac{(\frac{9}{2}z)}{(\frac{9}{2}z)}$ ヤー え, (タ,) = かくり) 1, = (2) 1, = (2) $=\left(\frac{\lambda_{1}^{2}}{\lambda_{1}}\right)=\left(\frac{2}{2}\right)^{2}$ $\frac{92}{21} = \frac{21}{25}$

eine genanere Formel ertalt man vern man anch den Widerstand Do = ohne olde Troppen

ber selbelt bettenden Flüssegkeit misst; dann 1 - mit tomastingorg on hygen ! 7, = (3) + 250 (92) = \ \ \frac{21 - V_0}{\overline{V_2 - V_0}} 2 = Ble + No $W_{i} = 2 \int \frac{dx}{2} - 2 \int \frac{dx}{2} + 3 \int \frac{dx}{2}$ $= 2 + (\beta - \alpha) \int \frac{dx}{2} = 2 + (\beta - \alpha) \frac{\lambda}{2}, \quad \text{for } x$ $\mathcal{N}_2 = \mathcal{N}_0 + (\beta - \alpha) \frac{\lambda_2}{(\mathcal{J}_2)}$ $\frac{\mathcal{V}_1 - \mathcal{V}_0}{2 \mathcal{V}_2 - \mathcal{W}_0} = \frac{\lambda_1}{\lambda_1} \frac{(9)}{(3)} = \left[\frac{(9)}{(9)} \right]^2$

n = q(x) y = f(x) $y = \frac{1}{\lambda} \int_{-\infty}^{\infty} f(x) dx$ Sehr of ber physikal. Treper wird eine fe que bestemmet, watered fee permont wird; give stellt den ardthm Acttelwerth in einen festen Intervalle der. 20. Spectrallinien [1). Überein an derlagern der Galtbilder 2). Der Untermohung mit Automoter, Sickedes Calibriren von Rotten, Temperatur-Mossing mittelst thermom ele.] Hie finder man for?

$$\varphi(x) = \frac{1}{\lambda} \int f(x) dx = \frac{1}{\lambda} \int f(x) dx$$

$$\frac{d\varphi}{dx} = \frac{1}{\lambda} \left[f(x + \frac{1}{\lambda}) - f(x - \frac{1}{\lambda}) \right]$$

$$= \frac{1}{\lambda} \left[f(x + \frac{1}{\lambda}) - f(x - \frac{1}{\lambda}) \right]$$

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$$= \frac{1}{\lambda} \left[f(x + \frac{1}{\lambda}) - f(x + \frac{1}{\lambda}) \right]$$

$$= \frac{1}{\lambda$$

$$-\frac{\lambda^{6}}{16} \cdot \frac{1}{5!} \left[\varphi^{T}_{0} - \frac{\lambda^{6}}{4!} \cdot \frac{1}{2!} \varphi^{T}_{0} - \frac{\lambda^{6}}{16} \cdot \frac{1}{5!} \varphi^{T}_{0} \right] - \frac{\lambda^{6}}{16} \cdot \frac{1}{5!} \left[\varphi^{T}_{0} - \frac{\lambda^{6}}{4!} \cdot \frac{1}{2!} \varphi^{T}_{0} + \frac{\lambda^{6}}{16} \cdot \frac{1}{2!} \varphi^{T}_{0} \right] - \frac{\lambda^{7}}{16} \cdot \frac{1}{5!} \right] \varphi$$

$$= \varphi_{0} - \frac{\lambda^{2}}{4!} \cdot \frac{1}{2!} \cdot \frac{1}{2!} \cdot \frac{1}{2!} \cdot \frac{1}{2!} \cdot \frac{1}{4!} \cdot$$

(d) = presence = 4(d) - 22 4"x + 7 4" 4"x = 5760 (x+2) + 4(x-2) = 25 + 25 = 25 f(x) dx [[q(x+2)+q(x-2)] = \frac{1}{\pi} [f(x+1)-f(x-1)] Coordinate Verschiebung [P. Index var eles [] gen= & Sfaidk dear & [fath)-fee] \$(x+1)= \f(x+21)-f(x+1)] [[(x+2) - fa] = = [[(x+2) - fa] $=2\frac{d q_2(x)}{dx}$ $q_2(x) = \frac{1}{2x} \int f(x) dx$

$$\varphi_{2}(x) = \frac{1}{2} \left[\varphi_{1}(x) + \varphi_{1}(x+\lambda) \right] + C,$$
 $\varphi_{1}(x) = \frac{1}{2} \left[\varphi_{2}(x) + \varphi_{2}(x+\lambda) \right] + C_{2}$
 $\varphi_{2}(x+\lambda) = \frac{1}{2} \left[\varphi_{2}(x+\lambda) + \varphi_{1}(x+2\lambda) \right] + C_{2}$
 $\varphi_{2}(x) = \frac{1}{2} \left[\frac{1}{2} \varphi_{1}(x+\lambda) + \varphi_{1}(x+2\lambda) \right] + C_{1}$
 $\varphi_{2}(x) = \frac{1}{2} \left[\frac{1}{2} \varphi_{1}(x) + \varphi_{2}(x+\lambda) + \frac{1}{2} \varphi_{2}(x+2\lambda) \right] + C_{1} + C_{2}$
 $= \frac{1}{4} \varphi_{1}(x) + \frac{1}{2} \varphi_{1}(x+\lambda) + \frac{1}{4} \varphi_{2}(x+2\lambda) + C_{1} + C_{2}$
eh. eh.

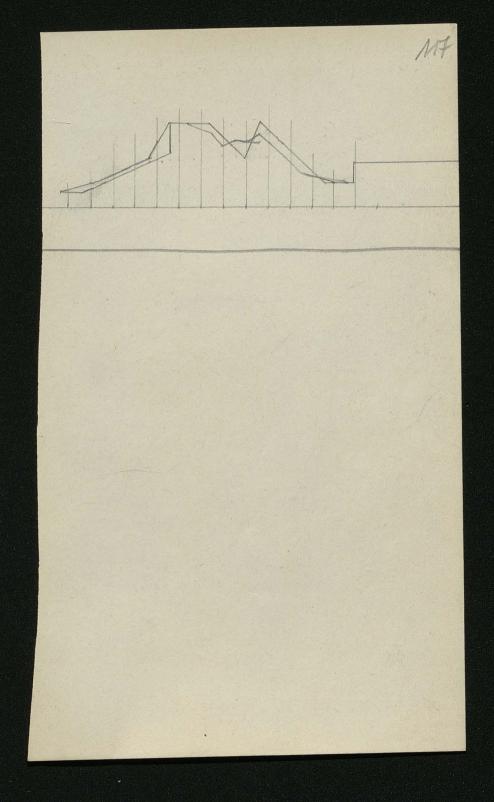
$$f(x+\lambda) = \lambda \frac{d\varphi(x)}{dx} + f(x)$$

$$f(x) = \lambda \frac{d\varphi(0)}{dx} + f(0)$$

$$f(2x) = \lambda \frac{d\varphi(\lambda)}{dx} + f(0)$$

$$= \lambda \left[\frac{d\varphi(\lambda)}{dx} + \frac{d\varphi(0)}{dx}\right] + f(0)$$

$$f(3\lambda) = \lambda \left[\frac{d\varphi(2x)}{dx} + \frac{d\varphi(0)}{dx}\right] + f(0)$$
etc. venn also in Werth $f(0)$ bekannt ist as können dærens alle anderen zefander verde



Diveging eines mults welcher von eine finen Centrum myck, prop. der 3 Oct. der Entherming an gerogen wird. dix = - k x dx die - kt de $\frac{d}{dt} \left[\left(\frac{dx}{dt} \right)^{2} + \left(\frac{dy}{dt} \right)^{2} \right] = -\frac{k}{r^{3}} \frac{dr}{dt}$ = the [(dr)+ v(th)) = k d (tr) (ch) + 10 (ch) = A + 1 A WA = (dr) + 20 (dr) - k 2 roz inde = 2c Cary 400 = k + A

$$\frac{dr}{dr} = \frac{k - 8c^2}{2r^2} + A$$

$$\frac{dr}{k-\theta r^2} = ell$$

$$\frac{r dr \sqrt{2}}{\sqrt{k-le^2+2Ar^2}} = elt$$

$$r = \sqrt{2Ar(t-0)^{2} + \delta c^{2} - k}$$

2c= r-che = r - cle dr = n 2012 / + 201 1 + 2012 (k-80) n + 2Any n 12 2cV2 = / dr + 2Ar2 + C I. k-802>0 $\frac{\varphi}{2e\sqrt{2}} = -\frac{1}{\sqrt{k-\ell}e^{-\nu}} \left[\frac{\sqrt{k-\ell}e^{-\nu} + \sqrt{k-\ell}e^{-\nu} + 2An^{\nu}}{r_{\bullet}} \right]$ k-80+2An= k-80+ +2n/k-80-e (C-4) Vk-80- (C-4 $r_{i} = 0$ $r_{z} = \frac{2\sqrt{k-\beta e^{2}}}{2A-e} \frac{(C-\varphi)\sqrt{k-\beta e^{2}}}{2e\sqrt{k}}$

$$\frac{1}{\pi}\sqrt{\frac{8c^2-k}{2A}} = \sin\left(\frac{(C-\varphi)\sqrt{\theta c^2-k}}{2c\sqrt{2}}\right)$$

tes new

I.
$$C-\varphi_{i}=0$$
 $\varphi_{i}=C$

$$C-\varphi_{i}=\pi$$
 $\varphi_{i}=C-\pi$

I.
$$2A - 2 \frac{(C-\varphi)}{Vk-9c^2} \frac{1}{cV2} = 0$$

$$(C-\varphi) \frac{Vk-9c^2}{Vk-9c^2} = \frac{1}{cV2} 2A$$

$$\varphi = C - \frac{cV2}{Vk-9c^2} \frac{\log(2A)}{Vk-9c^2k}$$

$$I = \sqrt{AO^2 + \frac{9c^2k}{2A}}$$

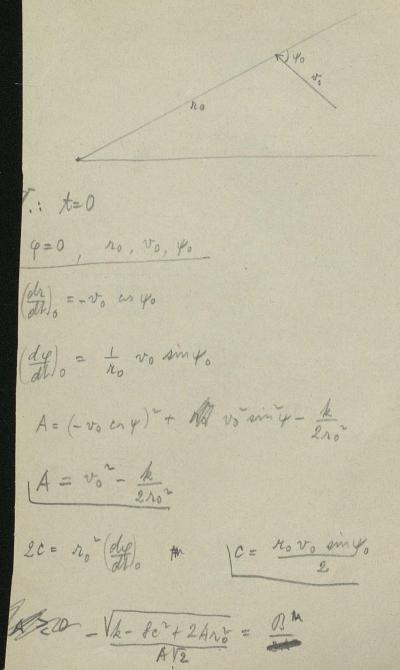
$$I = \sqrt{AO^2 + \frac{9c^2k}{2A}} \frac{1}{Vk-9c^2k} + C$$

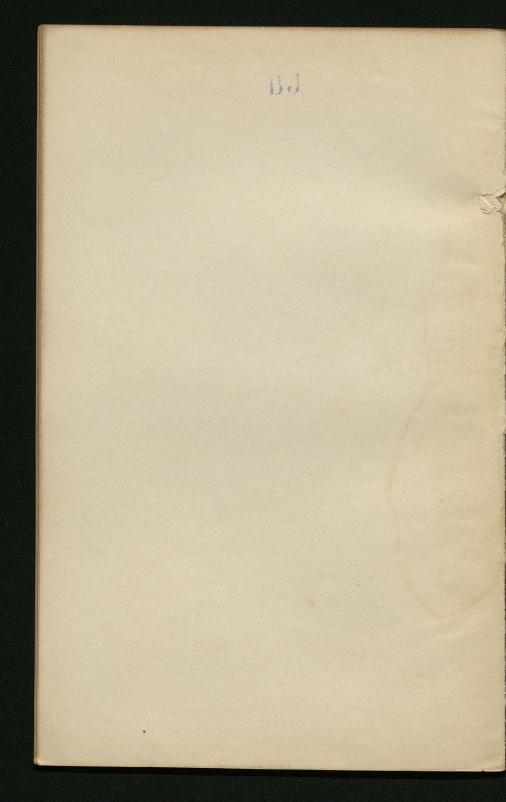
$$V = -\frac{2cV2}{Vk^2-k^2} \frac{\log(2A)}{\log(2A)}$$

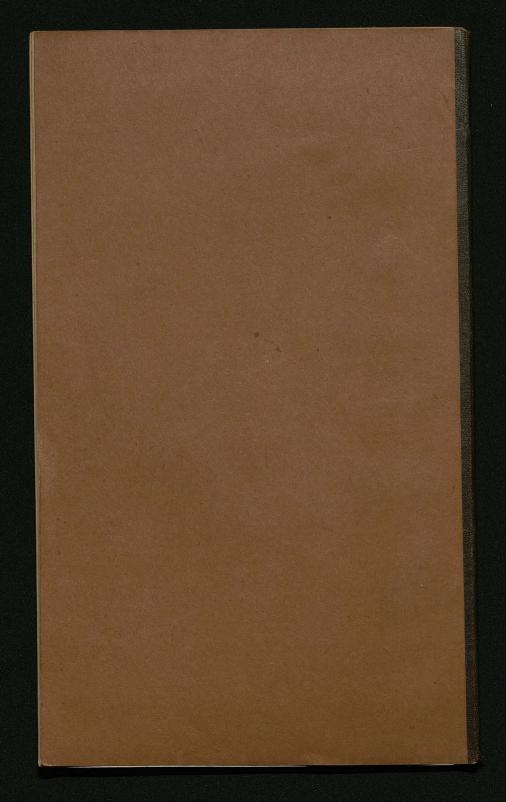
$$V = -\frac{1}{2} \frac{\log(2A)}{\sqrt{AO^2 + \frac{9c^2k}{2A}}} + C$$

$$= -\frac{2cV2}{Vk^2-k} \frac{\log(2A)}{\log(2A)} \left(\frac{9c^2k}{2A} \frac{1}{\sqrt{AO^2 + \frac{9c^2k}{2A}}} + C \right)$$

$$= -\frac{2cV2}{Vk^2-k} \frac{\log(2A)}{\log(2A)} \left(\frac{9c^2k}{2A^2O^2 + \frac{9c^2k}{2A^2O^2 +$$

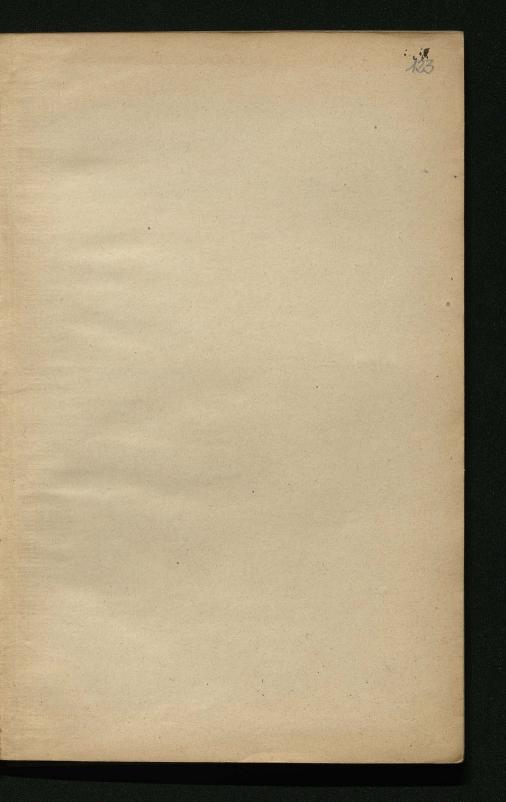


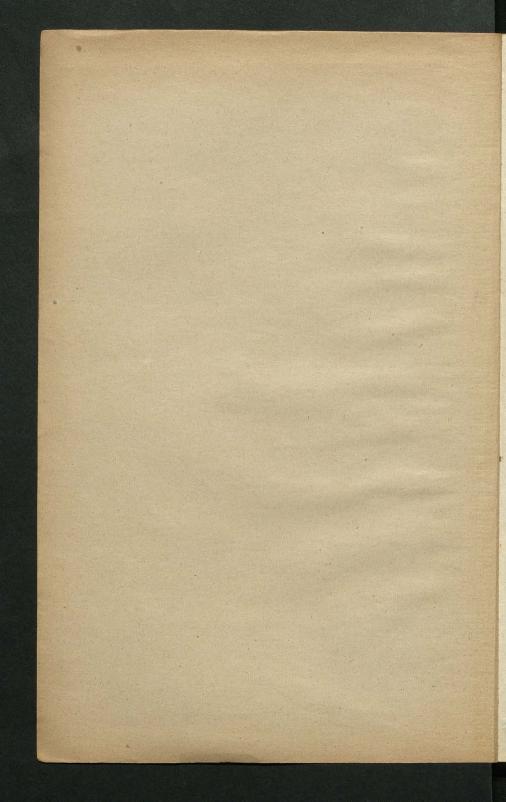






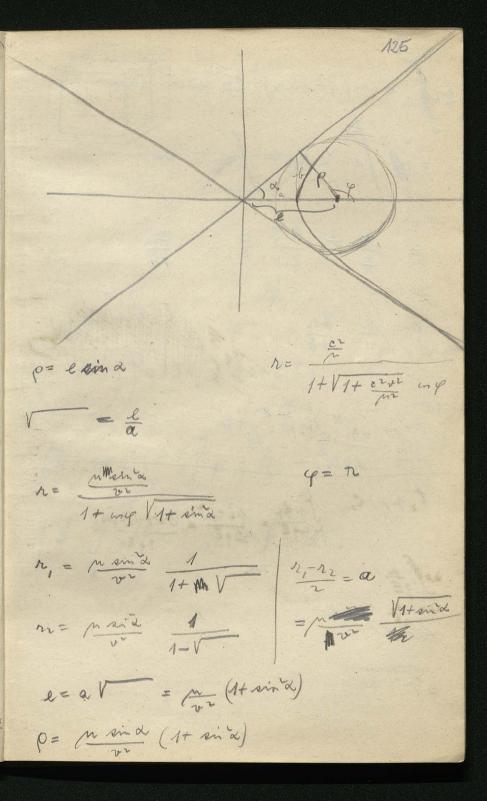
J. LUZAITAKY
WIEN
IV. Wiedener Hauptstr. 29





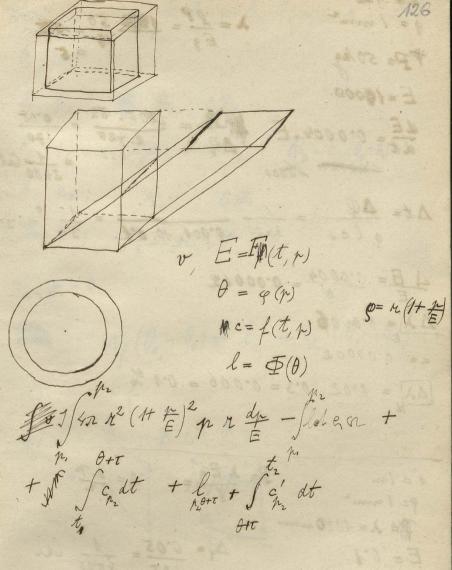
AZH c 2nn dr dx Du = Ather Durds z k gren on dx dr n du = m 2 (r dr) = m [du + n dr] u= not the drawth 15 robate the = m x 1x -1 th uz no et s anometh British = m 2 nd gth u= enth rearth prente = m[ae dry? + rd e dry?]

n= 1+ Vy+ 2006 mp m=k(m+m) c = Vpk(m+mo) C= k(m+m)(s2) 2 = M+C $C = \frac{v^2}{2} / x = \infty$ V1+200 long=1 At 2000 in 42 and 11+ 200 =-1 c= [m2(1-40 d) ent (m+ Zer C) = m = maind=pane



$$t_{1} p_{1} C, \qquad \int_{\frac{h}{q}E}^{\frac{h}{2}} \frac{dh}{2gE} = \frac{h^{2} - h^{2}}{2gE} = \frac{(h_{2} - h_{1})(h_{1} w_{1})}{2gE}$$

$$\lambda = y^{\frac{h}{q}} \frac{h}{2E}$$



$$e = 1 m$$

$$q = 1 mm^{2}$$

$$A = \frac{P}{E_{g}} = \frac{1}{1000} = \frac{50}{10} = \frac{50}{10$$

$$\frac{E}{\Delta y} = 0.00005$$

$$= 0.00005$$

$$P = 1 \text{ mm}$$

$$P = 1 \text{ Max}$$

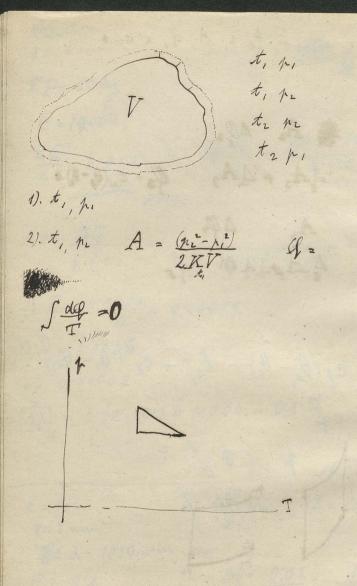
$$P = 1000 \text{ mm}$$

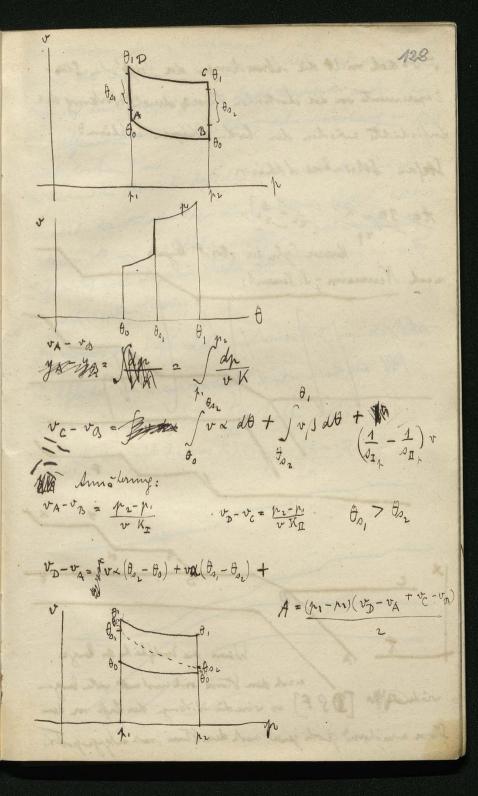
$$E = 0.1$$

$$P = 0.1 \text{ kg}$$

$$A = \frac{1000 \text{ mm}}{42.5} = \frac{1}{8500} \text{ Cal}$$

E, t, p, A, Q, a, c, s 127 Kress pures : 1). Do, po 2). do, p, ; $A_1 \triangle Q_2$ 3). 0, 1, ; $A_{\varepsilon}A_{3} + A_{\alpha}A_{3} \qquad Q_{3} = C_{(4)}(\theta_{4} - \theta_{0}) \Delta$ 4). 8, po; Ay Day 5). Oo, po; A A + AA AM 95 至 学=0 cf (P, - Po) + l, + ce (A, - Bs.). NEM KUNZE:





" Ob sich midt die Abnes Arrye der Voryt when Stro-Experimente vor der elastis hen Theoris abuch Working der Luftsdikte wis der der herde Kipen erklim? Stefan Shernbare Idhesion t= 32 m Ry (2 22) Kuren Cyludu strist lege: nach Nermann - S. Versant: Warm die Endfliede des longs med den Store sich und aust werter lange winder [DSF] so vande Willing du Zift von den Itime annichem glock jener nech dem Stone, mer entgege gent to

Nun krommen aber die Rusepainen S.H. J. K. M. wichent welcher die Luft einstis men kann; delle word die vewenfinde Kreft nech der Stork gwingen sein als die tremmen de met den Stake, In oblement Wiking in Debry dala Somokung an 129 Di medamo Re Theoris des desto, de stores vivile stommer sem 20. vors der die storlender Kryen ein sehr bogsomes elestische trosh-Tedorum D. ine Spiralfeder eingelyf vore. Die orgetlemente Luft with auch als so ein Palster dahn Annocherny a lestre der mechant, in Theorie. Die Appropria Kuft welche in homento t, un die Dette Endfleden um a sussimanden sind, med die HM od stire busher notificial da Loben ist: (bis Cylindern mid Redons &): $q = \frac{3\pi n}{2\alpha^3} \mathcal{R}^4 \frac{d\alpha}{ell}$

$$\frac{\partial u}{\partial t} = c, \qquad \text{Adding} - \S < x < -\S + 9$$

$$\frac{\partial u}{\partial t} = c_{2} \qquad x - \S < x < \alpha - \S + \varphi_{2}$$

$$\frac{\partial u}{\partial t} = c_{2} \qquad x - \S = c_{1} \cdot c_{2}$$

$$\frac{\partial u}{\partial t} = c_{2} \qquad x - \S = c_{1} \cdot c_{2}$$

$$\frac{\partial u}{\partial t} = c_{2} \qquad x - \S = c_{1} \cdot c_{2}$$

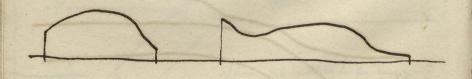
$$\frac{\partial u}{\partial t} = c_{2} \qquad x - \S = c_{2} \cdot c_{3}$$

$$\frac{\partial u}{\partial t} = c_{2} \qquad x - \S = c_{3} \cdot c_{4}$$

$$\frac{\partial u}{\partial t} = c_{2} \qquad \varphi(x) - u \cdot \varphi(x - u \cdot t)$$

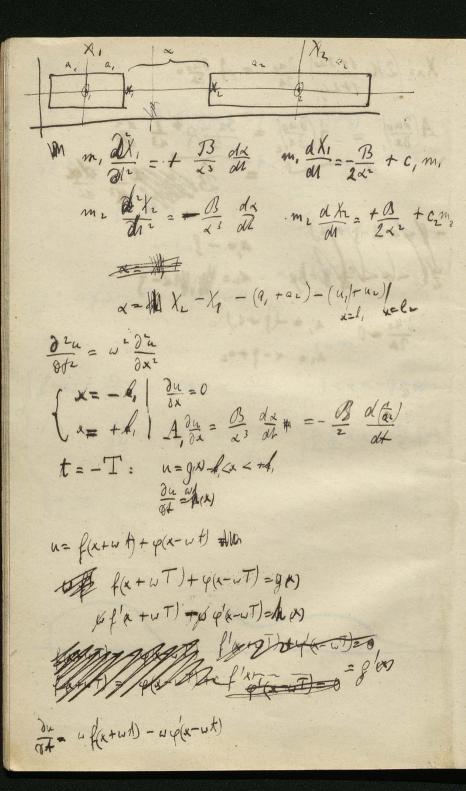
$$\frac{\partial u}{\partial u} = c_{3} \qquad \varphi(x) = -\frac{c_{1}}{2u} \qquad \varphi(x) = -\frac{c_{2}}{2u} \qquad c_{1} \cdot \xi < x < \frac{c_{2}}{c_{1}} \cdot \xi + c_{2}$$

$$\frac{\partial u}{\partial u} = 0$$



$$X_{X2} = 2K \frac{1+3L}{1+2L} \frac{\partial u_0}{\partial x} = A \frac{$$

u



$$\frac{d\alpha}{dl} = \frac{d\lambda_{2}}{dl} - \frac{d\lambda_{1}}{dl} - \left(\frac{dn_{1}}{dl} + \frac{dn_{2}}{dl}\right)$$

$$= +\frac{B}{2x^{2}m_{1}} + \frac{A}{2x^{2}m_{2}} - c_{1} + c_{2} - \left(\frac{dn_{1}}{dl} + \frac{dn_{2}}{dl}\right)$$

$$= -\frac{B}{2x^{2}m_{1}} + \frac{A}{2x^{2}m_{2}} - c_{1} + c_{2} - \left(\frac{dn_{1}}{dl} + \frac{dn_{2}}{dl}\right)$$

$$\frac{d(d+u_1+u_2)}{dh} = \pm \frac{\beta(m_1+m_1)}{2m_1m_2} dx + cx - c,$$

$$f'(x+\omega T) = \frac{1}{2} (\lambda \omega + \beta ds)$$

$$g'(x-\omega T) = \frac{1}{2} (-\lambda \alpha) + \beta ds)$$

$$f(x+\omega T) = MMX = \frac{1}{2} [g\alpha) + [\lambda \alpha, dx] - d(x < +d),$$

$$g(x-\omega T) = \frac{1}{2} [gin - [\lambda \alpha, dx]]$$

$$A_{i}\left\{f(l_{i}+\omega t)+\varphi(-l_{i}-\omega t)\right\}=-\frac{B_{i}}{2}\frac{d\left(\frac{d}{dx}\right)}{dx}$$

$$u_{i} = \frac{44}{44} a_{i} + \frac{1}{12} + \frac{1}{$$

$$a_{1} = 100 \quad M_{1} \times + N_{1}$$

$$b_{1} = M_{2} \times + N_{2}$$

$$c_{1} = M_{3} \times + N_{3}$$

$$c_{1} = M_{2} \frac{x^{3}}{3} + N_{1} \times^{2} + O_{2} \times + P_{2}$$

$$e_{1} = M_{3} \times^{3} + 3N_{3} \times^{2} + O_{3} \times + P_{3}$$

$$2 M_{1} x + 2 N_{2} = \frac{d^{2} d}{dx}$$

$$M_{1} x^{2} + 2 N_{2} x = \frac{d^{3} d}{dx}$$

$$M_{2} \frac{x^{3}}{3} + N_{1} x^{2} + O_{2} x + P_{2} = d,$$

$$\frac{d^{2} f_{1}}{dx^{2}} = 3, 4 \cdot \left[P_{1} x + O_{2} x + N_{2} x^{2} + M_{2} \frac{x^{3}}{3}\right]$$

$$\frac{d^{2} f_{1}}{dx^{2}} = 3, 4 \cdot \left[P_{2} x + O_{2} \frac{x^{4}}{2} + N_{2} \frac{x^{3}}{3}\right] + \frac{M_{2} x^{4}}{dx} + Q_{4}$$

$$\frac{d^{2} f_{1}}{dx} = 3, 4 \cdot \left[P_{2} x + O_{2} \frac{x^{3}}{2} + N_{2} \frac{x^{3}}{3}\right] + \frac{M_{2} x^{4}}{3} + Q_{4}$$

$$\frac{d^{2} f_{1}}{dx} = 3, 4 \cdot \left[P_{2} x^{2} + O_{2} \frac{x^{3}}{2.3} + N_{1} \frac{x^{4}}{3.4}\right] + M_{1} x^{5} + Q_{4} x + R_{4}$$

f. = M2 x5 + N2 x4 + 2. Qx3 + 6P2x + Q4x + R4

$$\int \frac{B}{2} \frac{m_{\perp} + m_{\perp}}{m_{\perp} m_{\perp}} dz = \frac{d(\alpha + u_{\perp} + u_{\perp})}{dt} + c_{\perp} - c_{\perp}$$

$$A \int \frac{du}{dx} dx = -\frac{B}{2\pi} dt (dz)$$

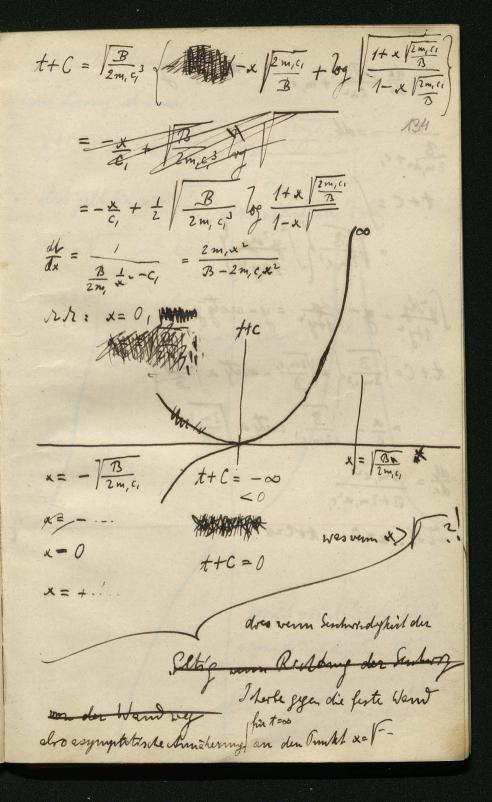
A, $\frac{m_1 + m_1}{m_1, m_2} \frac{\partial u_1}{\partial x} = \frac{\partial^2 u_1}{\partial x} \left(\frac{u_1 + u_1 + u_2}{u_1 + u_2} \right) \| x - \frac{d^2 u_1}{u_2} \|_{L_1}$ $= \frac{\partial^2 u_1}{\partial x} \left(\frac{1}{t} \frac{\partial u_1}{\partial x} + \frac{1}{t^2} \frac{\partial u_1}{\partial x} + \frac{1}{t^3} \frac{\partial u_1}{\partial x} + \frac$

ラスタ 有機(を ディナッディを 高・年 高・年 長・年 長・年 長・年 長

danil ever du berder Mibe ensi Asprogl, ninste ein 133 Noment sin, wo dit over the 20 also: - B 2 + c, m, = 0 when the terms =0 Magnanyson verlangt ein cz < 0 $\frac{B}{2a^2} = m_1 c_1 \qquad \text{denn id}:$ $m_2 \frac{d X_2}{d I} = m_2 c_2 + m_1 c_1$ $\alpha = \sqrt{\frac{B}{2m_i c_i}}$

XX A Wenn die Lange du storm du Ma Cylonder im Verholdnis 21 Tresar Guerschmitt sehr kurs ist, so den dese als bederlen betreehtet werden kommen, wind die elestante Verschrebung sche klein werden; wenn man angenichert aumsennt; off = dx; so wind sin: 1-x2= 20 (1+x + 1-x) 1/x m, dex = + B - m, c, 17x = y dx - 13 x2 + M c, =0 $J_{x} = \int \frac{y-y}{y} dy = y - l_{y}y$ = $(1+x) - l_{y}(1+x)$ Marin dx = M J2 = - 1 1-4 oly = - by y + y $\int \frac{x^2 dx}{\frac{B}{2m_i} - \frac{1}{m_i} c_i x^2} = \int dx$ = (1-x) - ly(1-x)J==2 \(-2x + ly \(\frac{1+x}{1-x} \) $\int \frac{\frac{2m_1}{73}x^2}{1-\frac{2m_1c_1}{72}x^2} dx = t+C$ = -x + hy 1+2

 $\frac{1}{2}\frac{\sqrt{2m_{i}c_{i}}}{2} = \frac{y}{2} = \frac{\sqrt{2m_{i}}}{2}\frac{\sqrt{2m_{i}c_{i}}}{2}\frac{\sqrt{2m_{i}c_{i}}}{2m_{i}c_{i}}$ $= \sqrt{\frac{2m_{i}}{2}}\frac{\sqrt{2m_{i}c_{i}}}{2m_{i}c_{i}}\sqrt{\frac{2m_{i}}{2m_{i}c_{i}}}$



$$m, \frac{dx}{olt} = \frac{B}{2x^{2}} + m, c,$$

$$\frac{dx}{B} = \frac{B}{2m, x^{2}} + c,$$

$$t + C = \int$$

$$= \sqrt{\frac{B}{2m, c, 3}} \sqrt{\frac{y^{2} dy}{1 + y^{2}}}$$

$$\int y^{2} dy = y - \int \frac{dy}{1 + y^{2}} = y - \operatorname{cret} y$$

$$t + C = \left| \frac{B}{2m, c, 3} \right| \propto \left| \frac{2m, c}{B} - \operatorname{cret} y \right| \sim \left| \frac{2m, c}{B} \right|$$

$$= \frac{x}{C} - \left| \frac{B}{2m, c, 3} \right| \operatorname{cret} y \propto \left| \frac{2m, c}{B} \right|$$

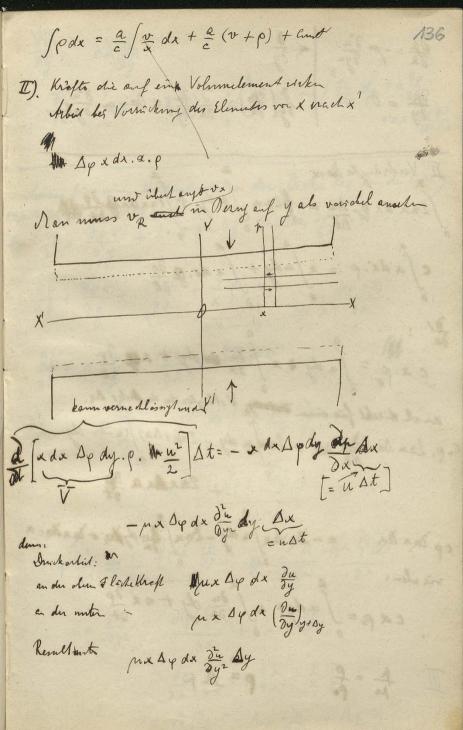
$$\frac{dt}{dt} = \frac{2m, x^{2}}{C}$$

At frihere Armohme: c, 135 eine Losning ist auch: $t+C=-\frac{x}{c_i}+\frac{1}{2}\left|\frac{3}{2m_ic_i}^3\right|\sqrt{\frac{2m_ic_i}{3}}+1$ dies aelh lix ~ $\sqrt{2}$ fin x= \ vend t= 00 x=00 1 t=-∞ also rollståndege Curuc: somid noted out de bleibe esquetotish dem Trukto

x= \ \frac{0}{2m,c,} for and bless hier in Rule

Vori hong. Eine Plette blugg sich mid der wastante Eschumdogkill c senderecht gge sine Warnt & (in Tuft), welches sim die Rebry mod ohnech Compression der Luft endstehnde Kriefts? Amohne: fix x= R sei Artigkil der haft: p = Po

1. In jeden tighnomente muss: verschängt Infram = auswei dem de + Verde dhy My Servala. Da = 27 R.a. va At Heradx. and $\frac{\Delta a}{\Delta t} = c \qquad \int \rho x \, dx = \frac{\alpha}{c} \frac{R}{c} \cdot v_R + \frac{a}{c} \int \frac{3\rho}{2t} x \, dx$ Sport of the x dx = a R vR Elemso fin helsebige Finish x: $\int_{0}^{x} \rho x dx = \frac{2x}{c} v + \frac{2}{c} \int_{0}^{2\rho} \frac{2\rho}{9x} x dx$ $\rho_{x} = \frac{2}{c} \left(v + x \frac{\partial x}{\partial v} \right) + \frac{2}{c} \frac{\partial x}{\partial \rho} \cdot x$ P = 2 1 + 2 2v + 2 2p



$$\frac{\partial h}{\partial x} = -\mu \frac{\partial u}{\partial y} \qquad = \frac{\partial}{\partial y}$$

$$\frac{\partial h}{\partial y} = 0 \qquad \frac{\partial}{\partial y} \left(\frac{\partial h}{\partial x} \right) = \frac{\partial}{\partial x} \left(\frac{\partial h}{\partial y} \right) = 0 = -\mu \frac{\partial^3 u}{\partial y^3}$$

$$\frac{2\pi}{3x} = c p + c \times \frac{\partial p}{\partial x} = 2 \int \frac{\partial n}{\partial x} dy + x \int \frac{\partial n}{\partial x} dy + a \frac{\partial p}{\partial x} + a \frac{\partial p}{\partial x} + a \frac{\partial p}{\partial x}$$

duns hie vine bokk ylande om der Droke Ay in der Dokey: 2nx ΔxΔy) 2nxΔxΔy (Do + 2(ov) +-2nx pu Δy - ln(xtΔx) 2ph Δx] Δy = 0 1 y

$$\frac{\partial \rho}{\partial t} + \rho \frac{\partial v}{\partial y} + \frac{\partial (\rho u)}{\partial x} + \frac{\rho u}{x} = 0$$

$$\frac{\partial^2}{\partial y^2}: \rho \frac{\partial^3}{\partial y^3} + \frac{\partial(\rho \frac{\partial^2}{\partial y^2})}{\partial x} + \frac{\rho}{x} \frac{\partial^2}{\partial y^2} = 0$$

$$\rho \frac{\partial^3 v}{\partial y^3} = \frac{1}{x_{ph}} \frac{\partial \left[ex \frac{\partial v}{\partial x} \right]}{\partial x} = \frac{A}{2x_{ph}} \frac{\partial \left[x \frac{\partial (y^3)}{\partial x} \right]}{\partial x}$$

$$(h \circ \frac{\partial^2 v}{\partial y^2} = \frac{\partial (\rho \cdot \frac{\partial k}{\partial x})}{\partial x} + \frac{1}{x} \rho \cdot \frac{\partial k}{\partial x}$$

$$\frac{\partial^{4}v}{\partial y^{2}} = 0 \qquad v = c_{0} + c_{1}y + c_{2}y^{2} + c_{3}y^{3} + \frac{1}{100} \frac{$$

a = h(xt)4 = 90 + exy+ e2y2+ 138 1 = XX, t) Dr = -Inaz felst! p = low-Infacts p= bo = 20 mx + 1 b= fc(t) Af Suit if dust open:

fir x = R blett p = westent == po The Temporal of the service of the s u = 0 für alle t mit x=0 y = a = E - et $0 = a_0 + a_1(E - et) + a_2(E - et)^2$ = a0 + a, E + 02 E2 - (a) 12 et - [a, +laz E] et + az etz / fix y = 0 went u ein reld. Nassmum heben also du = 0 mnd fin y=0 ein aboluter; dann muss elwand du xer = 0 sain sho: $\frac{\partial a_0}{\partial x} = 0$

ans Verdrangto Nons: Acxp = Sudy +x fox dy +Acx 2p Acx[bolon Serdx] = 20 2 + 0, 92 + 22 23

Acx[bolon Serdx] + x(200 0 + 20, 00, 00, 00) +x(de a + de a + daza3) + Aberta (2 x 2002 + Aax [2lo - 2p Sarde] 34 + h 3v + & 3(hux)=0 3 (3 m) + 3 m 3 m + 1 3 m + 1 3 (x 3 m) = 0 $\frac{\partial^2 x \partial y}{\partial x \partial y} + \frac{1}{x} \frac{\partial (x u)}{\partial y} = 0$ 3 (u 3 y + h 3 y } + 4 (u 3 y + h 3 u g = 0 n 2/2 + 1 2/2 + 2x (1 2/2) =0 or on the dray 1 3 (x h du)

$$\int_{0}^{\infty} \frac{\partial^{2} v}{\partial y} + \frac{1}{2} \frac{\partial^{2} v}{\partial x} \left\{ \int_{0}^{\infty} \frac{\partial u}{\partial y} \right\} = 0$$

$$\int_{0}^{\infty} \frac{\partial^{2} v}{\partial y} + \frac{\partial^{2} v}{\partial x} \left\{ \int_{0}^{\infty} \frac{\partial u}{\partial y} \right\} = 0$$

$$\int_{0}^{\infty} \frac{\partial^{2} v}{\partial y} + \frac{\partial^{2} v}{\partial x} \left\{ \int_{0}^{\infty} \frac{\partial u}{\partial y} \right\} + \frac{\partial^{2} u}{\partial y} + \frac{\partial^{2} u}{\partial y} + \frac{\partial^{2} u}{\partial y} = 0$$

$$\int_{0}^{\infty} \frac{\partial^{2} v}{\partial y} + \frac{\partial^{2} u}{\partial x} \right\} + \frac{\partial^{2} u}{\partial y} \frac{\partial^{2} v}{\partial x} + \frac{\partial^{2} u}{\partial x} + \frac{\partial^{2} u}{\partial x} = 0$$

$$\int_{0}^{\infty} \frac{\partial^{2} v}{\partial y} + \frac{\partial^{2} u}{\partial x} \right\} + \frac{\partial^{2} u}{\partial y} \frac{\partial^{2} v}{\partial x} + \frac{\partial^{2} u}{\partial x} + \frac{\partial^{2} u}{\partial$$

 $a\int_{-\infty}^{+\infty} e^{-yx^2} dx = 1 = \frac{a}{y} \int_{-\infty}^{+\infty} e^{-yx^2} dx \quad \text{if } x = a / \frac{\pi}{y} = 1$ The form of a standard of the a= 1/2 fe yx $V_{\pi} \int_{-2}^{2} e^{-\int x^{2} dx} = \frac{1}{\sqrt{n}} \int_{-2}^{2} e^{-\int y^{2} dy}$ $y = f_{\pi}(l_{80})^{\frac{1}{2}}$

EN = 9 MO Je-xidx= of etar dy $\frac{x}{x-x} = y$ $x = \frac{xy}{1+xy}$ with the state of es e (1+y) d (1 by) En = Sx e dx. Por Se-trada log xy=y loo=2. \(\frac{5}{5}\). 0.845 Sy e-Tay To Je y dy e yr 1/2 VAny lso = 1.69 100 86429 Maye 0.22 789 0.6742 lo 0 10 103 0.00000 879818 082880 195716

Park: 0.65 y bo ty og 55 15. 6. 11 0/08388:3 0.97280-2 0.58800 \$ 0.04821:10 0.6032/0-3/0.00401:6.7 0.31/840/-4 0.00083 1 6.4.9 0.03131 .45457 0.00168 0.00006 0.45651 0'03140 0.03140 042311

141 m= 1.772 45 m= 0.88622 0166666 6.041666 0.0046295 0:0046 px 00238 0.0001 10047 0.3321 0.95350 022789 lso = 0.95350 一0.5782年 0,64625 15864 80846

Park: 0.47675/ The fetal 0.67830-1 4.032bo-4 \$0.1084 1002463 039150-2 0.002266 674810-7 0.47675 0.0361 0.00246 00001 00362 0.47681 0.0365 = 0.4431 stommt 0.4430

Story A To B = MAN Tolemlayer n, n2 = Je Atome N. = Je e trobenh N. $V_i = \frac{m}{N}$ V2 = M2 = yo & St. i Nolice AH a b = Stonginset an, = AM bn = 1 = 10 m cr = sp. er = refspe 051% $\frac{d}{dt} = \frac{c_1}{n_1} = \frac{c_2}{n_2} \qquad (u = r^{2n_1} e^{-t})$ $A c_{i} = J_{n_{i}} \underbrace{\Delta h_{u_{i}}^{2}}_{2} \underbrace{J_{\Delta (u_{i}^{2})}}_{2} c_{2} \underbrace{J_{n_{2}}}_{2} \underbrace{h_{\Delta (u_{i}^{2})}}_{2} \underbrace{J_{\Delta (u_{i}^{2})}}_{2}$ $\frac{C_1}{n_1} = \int \frac{d(n_1)}{2} \frac{dn_2}{n_2} = \int \frac{d(n_1)}{2}$ verne glerte Tay so alle, to there's Destat & Slevethis du Temp. dorin, dess die mottl. kinettert merje der Stome oder du Molecule gloch ist? Slarbe des letelen. Jann ist Devies in Mills To mit Winhelman falsoh!

mimmim mmmm 143 v= oh ple the Holench In Tery She shit: AAv, 2) = BA(vz) $A = \underbrace{\frac{n_{i} a}{N_{i}}}_{N_{i}} B = \underbrace{\frac{n_{i} b}{N_{i}}}_{N_{i}}$ $= \underbrace{\frac{1}{n_{i} a} A(v, y)}_{2N_{i}} = \underbrace{\frac{1}{n_{2} b d v_{1}}}_{N_{i}} A(v, y)$ $= \underbrace{\frac{1}{n_{2} b d v_{2}}}_{N_{i}} A(v, y)$ $= \underbrace{\frac$ Andry Potist: $\frac{c_i}{n_i} = \frac{c_2}{n_2}$ $\frac{1}{2} \frac{1}{n_i} = \frac{1}{2} \frac{1}{2} \frac{1}{n_i} = \frac{1}{2}$ ma of many ne else vinde bei genaner Siltigkil dess die Noleen Winer beidenelle Temperature)
Herre men dahe die remere Abeit = O vorcanssetet!

$$ac_{i}: bc_{i} = aA(n_{i}^{i}): bA(n_{i}^{i})$$

$$= aN_{i} \frac{A(v_{i})}{N_{i}}: bN_{2} \frac{A(v_{i})}{N_{2}}$$

$$= aN_{i}: bN_{2}$$

$$= aN_{i}: bN_{2}$$

$$= \frac{N_{i}}{n_{i}}: \frac{N_{i}}{n_{k}} = V_{i}: V_{2}$$

Also giben die Vertalbritte der Aton warmen bei Voranssetzung einer immeren Arheit = 0 zuglord die Verkeltnim der tres ammens etzung der droberile aus Stomme!

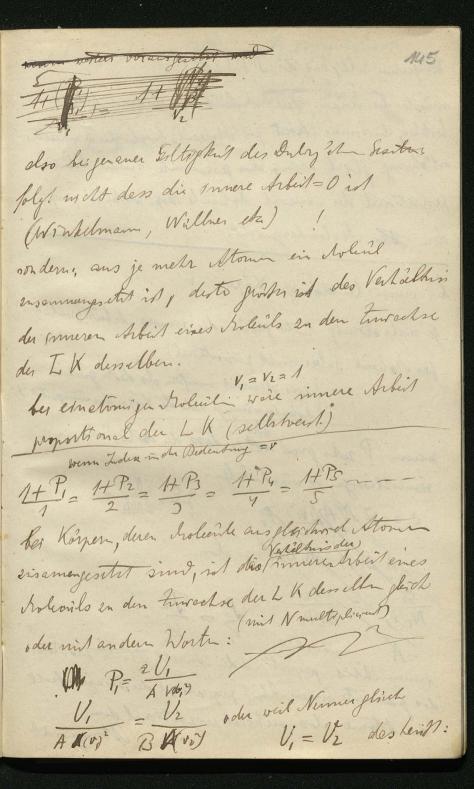
Des elles bei Voransetorny vor geschertige Stome vorm vir jetet Foranseten

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1	- VO + V (7 = 1	l+nb	

13 /11 1

Temp. Ster Mit: Since William San A DVI) = B D(Vi) Cz = JB Nz Day c, = JAN, Au, 5 = 7 100 = 1 10,5 2 = literary alloguements A c, = B c2 so folgt: As duck de trong Ods und Neumann? Sat (e, x + 0, v) (, = (b, p, + b, p) (2 defections: (2, 1, +2, 16), -9, 5, (4, 14) 28.: (2, 1, + 22 VL) Cg = 27 M, C, $C_3 = \frac{Q_2 \mu_1 C_2}{Q_1 \mu_1 + Q_2 \nu_2}$ $Q_2 \mu_1 C_2$ $Q_3 \mu_1 C_2$ $Q_4 \mu_1 C_2$ $Q_4 \mu_2 C_2$ $Q_4 \mu_1 C_2$ $Q_5 \mu_1 C_2$ $Q_5 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_1 C_2$ $Q_7 \mu_2 C_2$ $Q_7 \mu_1 C_3$ $Q_7 \mu_1 C_4$ $Q_7 \mu_1 C_4$ es winde also aus du Annohmen 1). Elisabeit den Teny, enere Kinge besteht derin dess die Cometische Energie der Droleinleghoch is y. Immere Abit = O also spen Warme - Artist zur Vermelrung den kinetischer Energie der Nobiente Jolgen, des die Arbumler Worme eller Worgen gloch ist; his midt der toll clos felsch!

Annahme I ist with down it. Avogoder's Souts at the dro Anschm 2 2n conigru-+JN, AA(v, P C, = J N, A D(v,2) + JAJA DO MAN Molant Ci = JN, B A(vi) + J Nitz P, einen plack pro 1 Holevil Tenguratu Gler Shirt wfor det: A A(0,1) = B A(vi) July Ctil. 19 to A AU,3 (JN, + J N.P) = c, $\frac{C_1}{N_1(1+\frac{R}{N_2})} = \frac{C_2}{N_2(1+\frac{R}{N_2})}$ $\frac{4}{N_{1}(1+\sqrt{N}P_{1})} = \frac{C_{2}}{N_{2}(1+\sqrt{N}P_{1})}$ Ellong Peter! & c, = bcz e: N, (1+N,P) = b: a N, (1+ 17) = &Nz (1+ 12) 1+ 1P1 = 1+ 11P2



bei graver beltigkeit de DP bisition muste bes Korper, deren Arbeils as plactivial Stone bestehen, die somere Arbeit pro Molecul benglercher Temperetraartishing flitch stin, also peremente innere Arbis proportional der Ansell Nobecile resp. verkeld prop. den Ho Avlenlergericht. bes venskrede otomign Krizer ? je mehr etomig desto grøber die innere Arbeit (wal ke/s) per Nobens (der mitt proportional) · (dres strumt insøfern als desta fræken Avlenlar værne je moke de Krige aus amuges storid) weren Prehi groot to so dess du ente Port en remarkleisige go winde folg: a C, a N. P. = - INIR = A South of also do A Small I immen Abis proportional de Ansell Itomo pro Nole. des grammte inner Abil proportional du Ses anunkall du Atoma elso verkeld proportional dem Stongwist

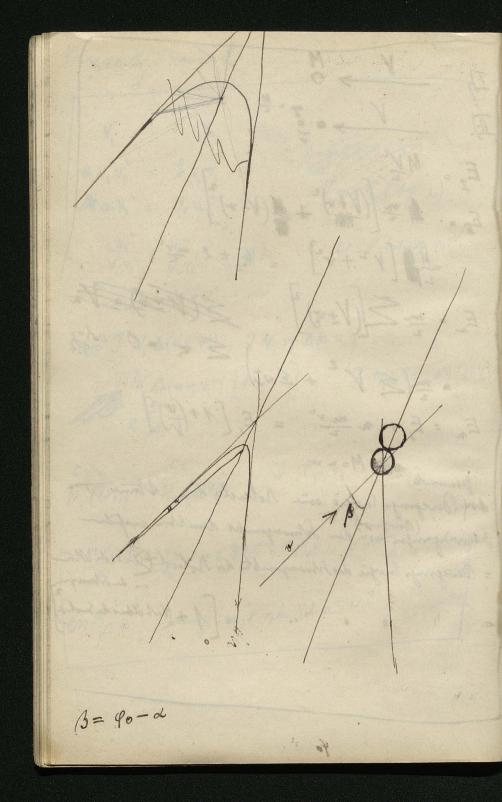
vil denn ober spe. Worm = I guiv. mer fin stre pi is dues by sus anneng settles Wirgen funer Toubides Sento ?

2/1 222 ds dx (V22+x2) 2 to fun trita tenn fragin $V = \int u \frac{1 - u}{1 - u} R$ $V = \int u \frac{1 - u}{1 - u} dx = \int dx =$ $= \frac{2\mu n}{2-n} \iint \frac{R^2 + x^2}{R^2 + x^2} = x^2 - x^2 dx$ J Ry 2 de = (R+xy) - /x - /x (1-2) 2x de (R+xy) = m $\mathbb{R}^{1} \int \frac{dx}{\left(\mathbb{R}^{1} + x^{2}\right)^{\frac{n}{2}}} + \int \frac{x^{2} dx}{x^{2}} = \left(\mathbb{R}^{1} + x^{2}\right)^{\frac{2-n}{2}} \frac{2-n}{x^{2}} \int \frac{x^{2} dx}{x^{2}}$ $\mathcal{J}_{1} = \frac{\left(R^{2} + x^{2}\right)^{\frac{2-n}{2}}}{R^{2}} \times -\frac{\left(3-n\right)}{R^{2}} \mathcal{J}_{2}^{2}$

X (Rithey = Rithey = + m/x2dx (Rithey =+1) $-n \int dx = \frac{n dx}{(R^4x^4)^{\frac{n}{2}}}$ (1-n) = x + n / dk 2 2 - Right n=m-2 $=\frac{1}{(2^{2}+1)^{\frac{n}{2}}}-nR^{2}\left(\frac{dx}{(2^{2}+1)^{\frac{n}{2}}+1}\right)$ (1-1+2) 1 / 1 = + - (h-2) / dx $J = R^2 J_1 + J_2 / = (R + 4)^{\frac{2-n}{2}} x - (3-n) J_2$ (3-n) = x 1-2 - 1 22 7, J = 2 - (n-y/R2 2 - (n-y/3-4) /2 (3-n) J2 = (R7x) 2 x (n+4) + MM . Q III J2 = (24x) $\frac{1}{2} = \frac{1}{2} \left(\frac{R^2 + x^2}{2} + \frac{2 - n}{2} + \frac{2 - n}{2} + \frac{2 - n}{2} \right)$ $= \left(\frac{R^2 + x^2}{2} + \frac{2 - n}{2} \right) \left(\frac{R^2 + x^2}{2} \right)$

Vorusary m>2 (2/2/2019 24) a v, v, = b v, v, Joro (4+ 1) drak'= buz =1 Collatonique to N u, = 2 v, v,2 G= JN, A(av, v,) + JN, v, A(au,) = 7 N, D(ey vi) [1+ 2v,] = 7 N, D(ev, vi) (1+v,) Y P = 1, $\frac{c_1}{N_1(1+v_1)} = \frac{c_2}{N_2(1+v_1)}$ 1+V, = 1+V2 : e &1.0.5. × 1 × 6 × 00 2 en & e | Notomoge so 1 spec. Vol. in 2 re

E_ = # = (V+v)2 + # (V-v)] $= \frac{1}{2} \left[\left[V^2 + v^2 \right] = E_I + 2 \cdot \frac{mv^2}{2}$ $E_{n} = \frac{m}{2} \left[\left(V + v_{1} \right)^{2} \right]$ $= \frac{m}{2} \left(\leq V^2 + \leq v_n^2 \right) \leq v_n = 0 \quad \text{and} \quad v_n = 0 \quad \text{and} \quad v_n = 0$ $E_n = E_1 + n \frac{m v^2}{2} = E_1 \left[1 + \left(\frac{v}{V} \right)^2 \right]$ Jesemmta) M=nm dog Devegnings Energie eine Noleiel, den Stome Solver hymige um den Solmagember dendte ensfite = Dewegnings Energie des Mougambtes des Nobecd &D. E. de Mon " [] + (Varhellis der Serohat) = 11 11 (1)



des, was Red. du Nobbel buchut word, in theil were 149 die Verkinzung des Weges in Julye de großen Sesther notighist in Pershel, therts Winking der Dersetion. 10)-11 2: vo, ho, d et al de bei gredet hut! C = 2 - /20 1= 1+ 11+ 2cic cop n= k (n+m) $\exp \sqrt{1 + \frac{2e^2}{\mu^2}} = -1$ $\exp \sqrt{1 + \frac{2e^2}{\mu^2}} = \operatorname{akcen} \left(\frac{-1}{\sqrt{1 + \frac{2e^2}{\mu^2}}} \right)$ C= 1 h, v, sind M30 N=00 90 Pa= 12 + oresis 1/1+ 2000

$$\frac{c^{4}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} d\varphi = cdt$$

$$\frac{A}{1+R cosq} d\varphi = A \left(\frac{1-\sqrt{1+\frac{2c^{2}C}{L^{2}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} \right) d\varphi = cdt$$

$$\frac{A}{1+R cosq} d\varphi = A \left(\frac{1-\sqrt{1+\frac{2c^{2}C}{L^{2}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} \right) d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}}{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}} d\varphi + \frac{1+\sqrt{1+\frac{2c^{2}C}{L^{2}}}}}{1+\sqrt{1+\frac{2$$

Alf 2 (nom 40-roin p - t) = yorke 明和 lin ro = 0 sind = cos ares 1 = Il-sin are $= \sqrt{1 - \frac{1}{1 + \frac{2 \operatorname{c}^{2} \operatorname{c}}{\mu^{2}}}} = \frac{2 \operatorname{e}^{2} \operatorname{c}}{\sqrt{1 + \frac{2 \operatorname{c}^{2} \operatorname{c}}{\mu^{2}}}}$ 2/ (1+ / cry) = 02 $cn \varphi = \frac{c^2 - h}{r \sqrt{r}}$ 2 c 2 - c4 - 2c - Ci sin φ= 1- (= -x) 2

1- (= -x) 2

1- (= -x) 2 $=\frac{e^2}{m}\left(2n-\frac{e^2}{m}-2\binom{n}{n}\right)$ tot= 1-my = 1-1 1 - 1 + 2 - n アレナビール 1 = 17-4 = 48ting = 11-ang sing

{(1+ 20°C+√)sing (1+ 2014) sing - stage sing (
1+ 1 way - sing 1-ing) = W 2 i C) sing + V mig - () sing my 2 vig my - sing - Whire (1+ V my) (1- my) = 20°C + 1/1+20°C - (1+20°C+21/1+20°C) uny (1+ ruy) (1-my) singo = si(ptd)
= sinfluxet inflaid = cod 2000 poid singo = 2c/C un2-sind 17 20°C = m tro vo sind und - sid sind (C nov sin 2 2 -1)

0, 60 = 1 + 20°C - 40°C max + 1 her chaxia - on a

1+ 20°C - 151 $= 1 + \frac{2c^{2}C}{\mu^{4}} - \frac{4c^{4}C^{2}}{\mu^{4}} + \frac{4c^{4}C^{2}}{\mu^{4}} = \frac{4c^{4}C^{2}}{\mu^{4}} + \frac{$ $aiplish = \sqrt{1 - \frac{4c^2C}{\mu^4} \left(\ln^2 d + \frac{2c^2C}{\mu^2} \left(\frac{1}{4} \sin 2d \right) \right)}$ $1 + \frac{2c^2C}{\mu^2}$ $= \sqrt{\left(1 - \frac{2e^{2}C}{\mu^{2}}\right)\omega^{2}} + \frac{2e^{2}C}{\mu^{2}}\left(1 + n^{2}\right)$

De Denblemsgrung dreech die zu Kraft Jegenibs einer Stort-Reflex on last nich folgen derma sten berechnon: sem Stort have Keep Too levels things mil Seshes. Mi in Louis ABC dale: Flackenges des. constant c = Pv. [p= Terendikl ct = pvt on ABout of dro tel - Sector Fliche F= 1 1 Flådergesdur. degege bei lintealbenge aver dientle Flathenges hinindagt. aben es entfell die Flate minh Saynys. und Hyperlat. Ano teilgevinn = Flacke A B C D Flackinges des. $f = f_{\pm ung}$ $f = \int_{2}^{2} \int_{0}^{2} dx = \int_{0}^{2} \int_{0}^{2} (1 + \epsilon ung)^{2}$

x - 7 = 1 y 26 22 11- 22 11 Sydre & Sizar dx J'= x Vr-e - Juner dx = I + Jardu 27= x /x-e- - 2 f dx J = x /2-e- = 2 by (x + /x=e2) Sydx= # bx 16 -1 - ab. ly (x+ 16)-1) $= \frac{xy}{2} - \frac{ab}{2} \log \left(\frac{x}{a} + \frac{y}{b} \right) \qquad x = \infty$ dro Flike ADCD = ab by (x + x) $= \frac{ab}{2} + \frac{cb}{2} \ln \left(\frac{x}{a} + \frac{y}{b} \right) = \infty \cdot \cdot \cdot \cdot \cdot$ Eilguni verels o as i dohn muss man Is obere Grenze die mettle Hillinge & en film 7 1000 cl (1+ ly (x + yx)) = = et (1+ ly 2 + ly (1+2 2)) = (anymodel) at of 1+ log 2xy

L= Ensferring. a Vaith c= novosid (= \frac{v_0}{2} - \frac{n}{n_0} 1+ cry 1+ 2cc n=k(m+m,) e no P=1800- 840 9 As = 900 + oresin 1

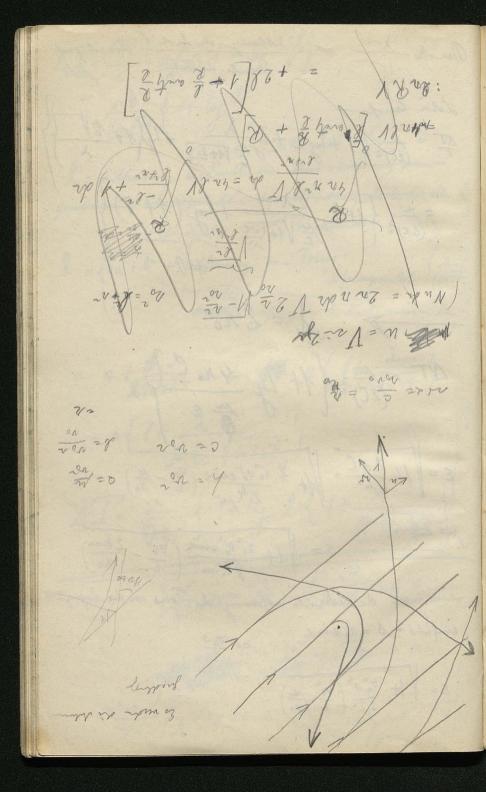
1 1+ 2006 $cop = \frac{1}{2}$ dorers: $\beta = arccos \frac{1}{\sqrt{1+\frac{2c^{2}C}{\mu c}}}$ (n) = 10+10-0= = 0 [1+60-1] t= to P= to acos 1 = 11- 1+200c 1/1+20c = 120°C = 1 1 200 - 1 = / Peak / 1 / 2000

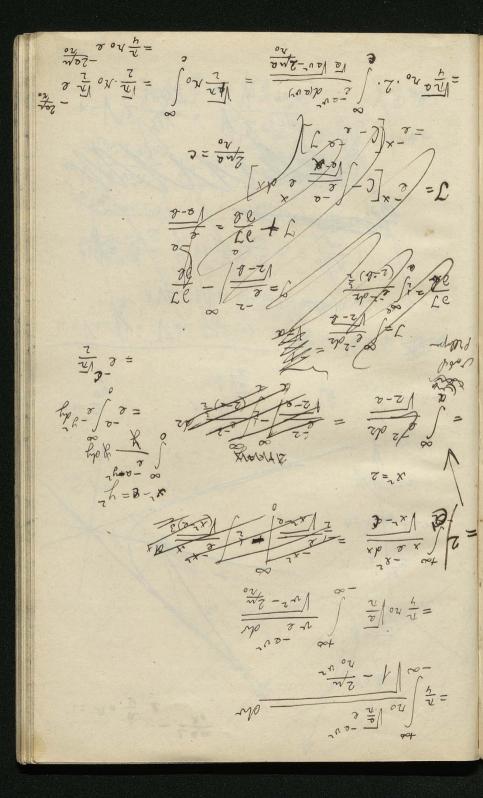
2 Q - 1 + 4c - 1 = 20°C Q 153 order and suffyed Wess a: 20 = 2 d: 25) sip= 2000 1+2000 a=fina eina (1+ toc) · fina lin=0 b = MA 20 Varthe Vart 200 to 2 Vart 2000 = 1/20 <u>να"+δ"</u> = ε = / μ <u>ε σ"</u> εtommt.

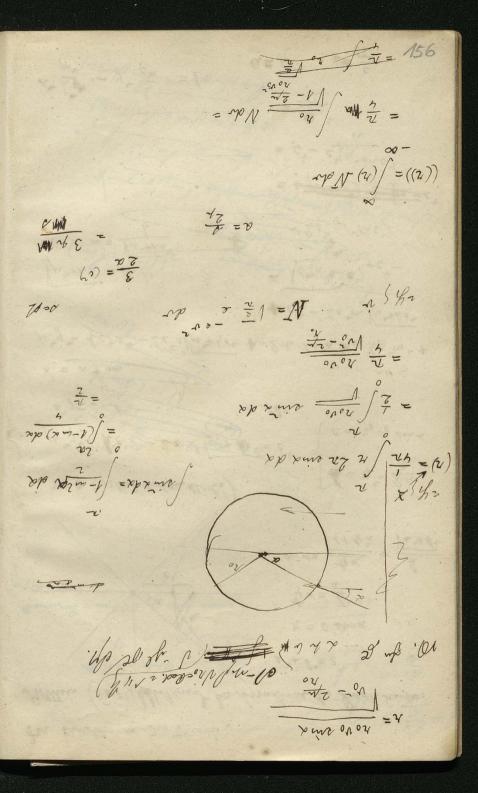
AT= = = el {1 + ly = 2} $= \frac{\mu}{\sqrt{(2c)^3}} \left\{ 1 + \log 2 \right\}$ &= Ensferming des Prustes son From = Ensforment on funissen Tolowaports depolts butpry du berder It. (angin That) I = Ve+ b + Enthung on Focus (2)

helle helping du birdu t. vor en an de = a + 1/2 h = All a { 1+ 2 /2 Hr} 1 I = 1 (2c)3 (1+ by 2 (1+ 20c)) [3 or two on - R] Jupen = whenty of the whole = whole of the of the offers of the of

is = Espeny de bend Todosch grat Executs. du Dohn 1541 down toersfor AT = (2c)= {1 + by 2 + by (1+ 200) = (1+ hy 2) + hoy (1+5) } = (20)= (1+ hy 1/2 V1+ 10x + hoy (1+5) } +0 $\rightarrow \lambda = 2 ho$ AT = (2C) = (1+ by 4n. C) E = 1+ 20°C = 1+ 2 10 vo sind (vo - /u) £= 1+ 10 0 sind (νο - 2 km) ven man die sudhrects Intfernny des Fous von der Szymptoto einfield = S = No sind c= 1000 E = 1 + 00 52 (vo 2 / no)







サーマ ゴーカ 1= 23 2h - 27 2x W == 60 ytawho -50 = 4 + (7 1) (27 12 = (23/4 m) 22 y m = 2742 m - 2+ (27+2 m) 20 = # 69 - 20 m /n 4400 + 2 m2 x = 4 2 2 x 1 m 2 + 2 2 m h 2 m h 2 m h = 4 2 m h m + x = x 2 2 2 至=次文 2 = 6 oma マラーのナッと Settle (Pert septh out he timetime de Los . haters In blushow In Thur.

1-inpay = sipsing 1= up up + 2 priy tha · 1-why = mping X-24 Juy + (- sig) = riyrip (confemble = 1- only = 0 1-4 Jany ray by 2-1 (24) Endrands glais 200 .000, N in since John = 500 m = Eround 248 Fish not glist in 10 m Ag = No also is some Works other fle In = " We red

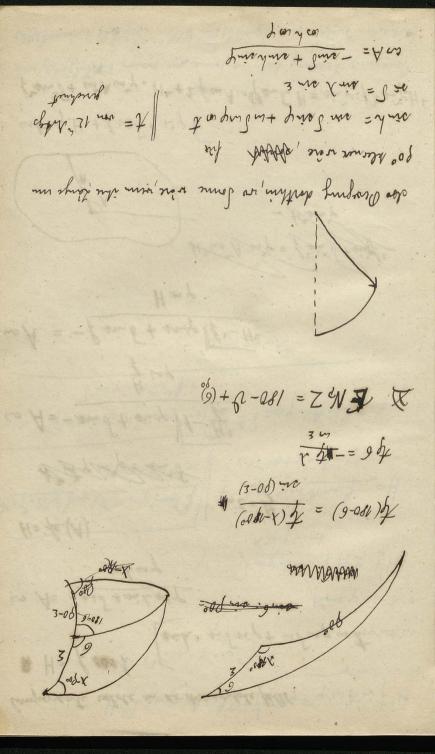
(Monda Hath our Sommer und Worter) 153 ac = 2 & Hunden! 200.9t = 12.0 :59E = 365. 0.1 dre in cinem Hollfola sget 120=141:8862 ME . ts : 98 1. 184, 2 880 = 8 mo # 2012 A M (20-5) m. 365 m. 365 8 20 31.5 = 8 200 1. 000.01 - = 25 = - 6h f out g= gp = Non Not. Log + Pace!

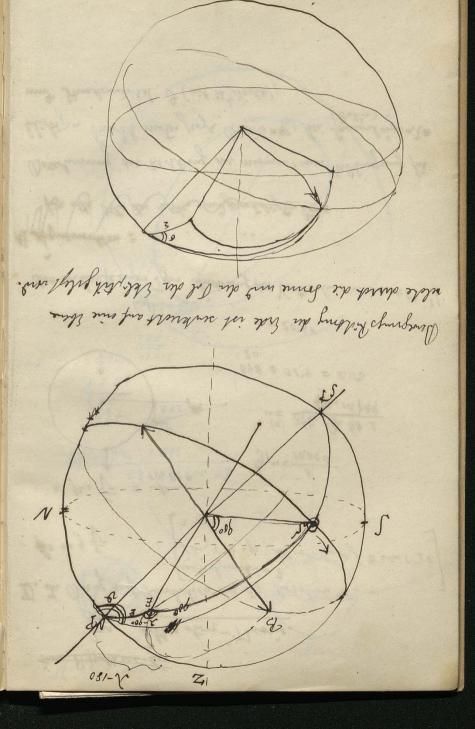
(Normall With an Nory madlens) Inth 200 1 = = = = = = 1 = 1 = 1 = 1 [] = - 6, 60. 60 1 [[[ou] +] = 000.01 I = dm = dua ost = o

159 = - \frac{6.64.64}{5.64.64} \frac{1}{1.56} = -2.16 \frac{1}{20.06} = -2.16 Lope mm Aguinocher ~ 200.00 - 2 2 000.01 - 20 TA Pe=0 Deputer [que on = + que omo] fr 79-= [dos graphing in] f in yg = 2 LV [que to + " -= fine die] fi == [tradubut greens of the fight $\left(\frac{1}{2}\pi\right)_{5} = -28$ $\left(\frac{1}\pi\right)_{5} = -28$ $\left(\frac{1}\pi\right)_{5} = -28$ $\left(\frac{1}\pi\right)_{5} = -28$ $\left(\frac$ Emponente n du Vert halen - 7 Lapy M underer nech O um 12thods I -It doing, we some sor inen is John out - und entige joy va. de Wondelkarre & Legfork winned Desimme = 20.6" En du

6 Som den op alse wor, Somit fin all Tunkto sumushell-Benegungs Libbing dal, so Some vor some bestellotz, um y no to my my (Gratguta)(200-pino) } + Erry whint = = First of the friend + Bring that = H J= Jupuhut H2+H Fins ym - 1 = (me-pmo) f = ym-1+pmhm. Harfurt tonght 2 funt won Am July

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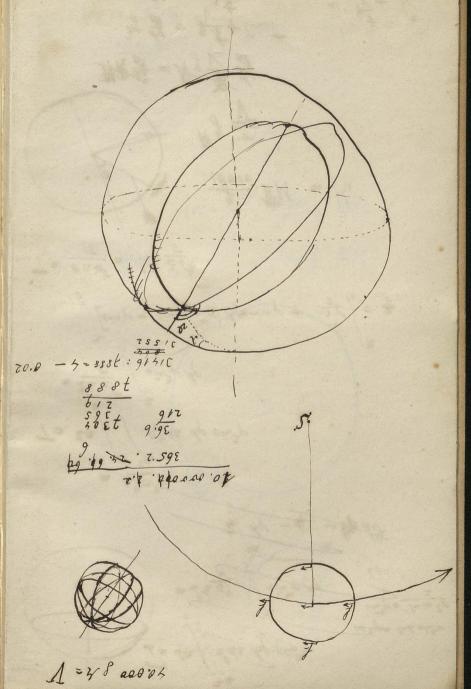




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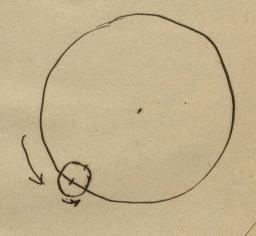
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$$\frac{\xi}{4} = 10$$

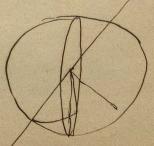
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- Of sin golg = wax $dq = \frac{1}{\sqrt{2}}$ $dq = \frac{1}{\sqrt{2}}$ $dx = \frac{1}{$ -Dain q die = de . J=-1/x dx m = -1 \(O-1)x^2+2x-1 + 1/1 \ds V= (2-1) 2+ 2 -1 J= 1 Dainy + 2(0=1)= by 1+ 1+0mp + 1+0mp 14. Dung + 0 10 + 1 0 10-1 six mp+0 - 10-12-4 3° 20 = - 27 U1 30

V2 - n = 0 VA = 2/1 10 = 2/1 = 2 p vo = 12 p vo 12 h = 20 pm min k [1+ 1/32+ 32+ 2 (m. D. (dm Oth) 9-00 (pm-2+0) (02+0)+007 Jan + dun - 10+7 0+7 4 mot dust yn oft & 1 (hm-1) 2 (hm(0+1) Line 8 [qm.(02 to) (0+ 1-0] - (dm) (dm(0+1) (07 to) J-04m07 [(pm-h) g-0 0- g-0 (gm (0+h)] (dun-1) (dunc+1) (dun (+1)) = (dun-1) (dun (+1)) (dun (+1)) = (dun-1) (dun-1) (dun-1) (dun-1) (dun-1) (dun-1) (dun-1) (dun-1) (dun-1) (dun

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